431. Vic Hellard, Jr., Director -

Report of the Special Committee on Teacher Retirement. January, 1986. (Janie L. Jones)

432. Vic Hellard, Jr., Director -

Government Competition with Private Enterprise July, 1986. (Randy Bacon/Sharon Schneider)

433. Vic Hellard, Jr., Director -

Local Planning Commission Survey. November, 1986. (Gordon F. Mullins)

434.. Vic Hellard, Jr., Director -

Establishment of a Building Inspectors' Foundation Program Fund and Feasibility Study. October, 1987. (Allan Alsip/ Mike Greenwell)

435. Vic Hellard, Jr., Director -

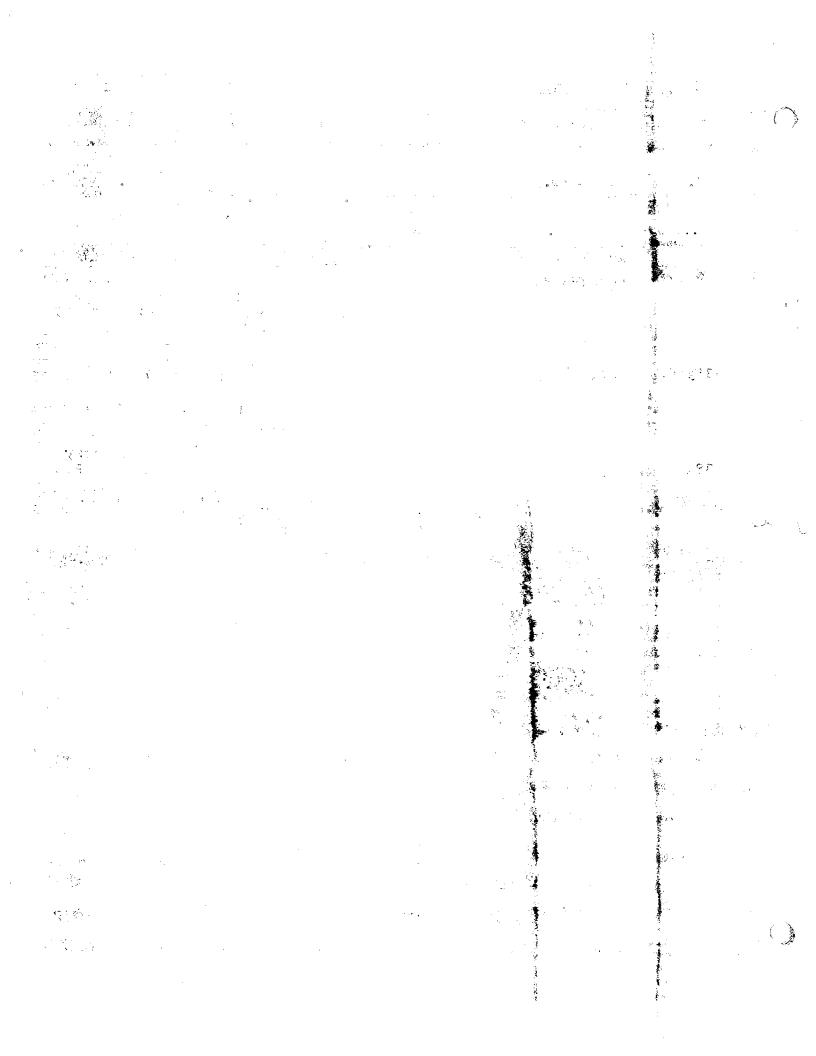
Report of the Special Subcommittee on Kentucky Essential Skills Testing. April 7, 1988. (Bonnie Brinly)

436. Vic Hellard, Jr., Director -

High School Graduation Réquirements and Testing for Graduation. April 7, 1988. (Bonnie Brinly)

437. Vic Hellard, Jr., Director -

Patterns of Growth and Decline in the Kentucky Economy, 1969-1988. November, 1989. (Virginia Wilson)



| 438. | Vic Hellard, Jr., Director - | Economic Trends in Kentucky Counties, 1969-1987 - ADAIR COUNTY. Feb., 1990. (Virginia Wilson/ Donna A. Cantrell) |
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| 438. | Vic Hellard, Jr., Director - | Economic Trends in Kentucky Counties, 1969-1987 - ALLEN COUNTY. Feb., 1990. (Virginia Wilson/ Donna A. Cantrell) |
| 438. | Vic Hellard, Jr., Director - | Economic Trends in Kentucky Counties, 1969-1987 - ANDERSON COUNTY. Feb., 1990. (Virginia Wilson/ Donna A. Cantrell) |
| 438. | Vic Hellard, Jr., Director - | Economic Trends in Kentucky Counties, 1969-1987 - BALLARD COUNTY. Feb., 1990. (Virginia Wilson/ Donna A. Cantrell) |
| 438. | Vic Hellard, Jr., Director - | Economic Trends in Kentucky Counties, 1969-1987 - BARREN COUNTY. Feb., 1990. (Virginia Wilson/ Donna A. Cantrell) |
| 438. | Vic Hellard, Jr., Director - | Economic Trends in Kentucky Counties, 1969-1987 - BATH COUNTY. Feb., 1990. (Virginia Wilson/ Donna A. Cantrell) |
| 438. | Vic Hellard, Jr., Director - | Economic Trends in Kentucky Counties, 1969-1987 - BELL COUNTY. Feb., 1990. (Virginia Wilson/ Donna A. Cantrell) |
| 438. | Vic Hellard, Jr., Director - | Economic Trends in Kentucky Counties, 1969-1987 - BOONE COUNTY. Feb., 1990. (Virginia Wilson/ Donna A. Cantrell) |
| 438. | Vic Hellard, Jr., Director - | Economic Trends in Kentucky Counties, 1969-1987 - BOURBON COUNTY. Feb., 1990. (Virginia Wilson/ Donna A. Cantrell) |

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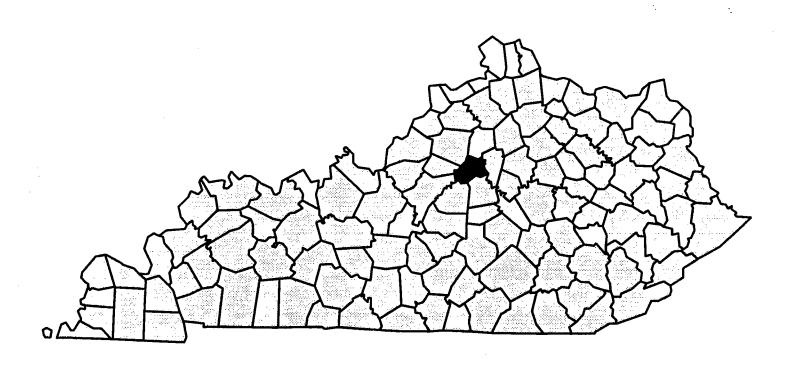


| 438. | Vic Hellard, Jr., Director - | Economic Trends in Kentucky Counties, 1969-1987 - BOYD COUNTY. Feb., 1990. (Virginia Wilson/ Donna A. Cantrell) |
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| 438. | Vic Hellard, Jr., Director - | Economic Trends in Kentucky Counties, 1969-1987 - BOYLE COUNTY. Feb., 1990. (Virginia Wilson/ Donna A. Cantrell) |
| 438. | Vic Hellard, Jr., Director - | Economic Trends in Kentucky Counties, 1969-1987 - BRACKEN COUNTY. Feb., 1990. (Virginia Wilson/ Donna A. Cantrell) |

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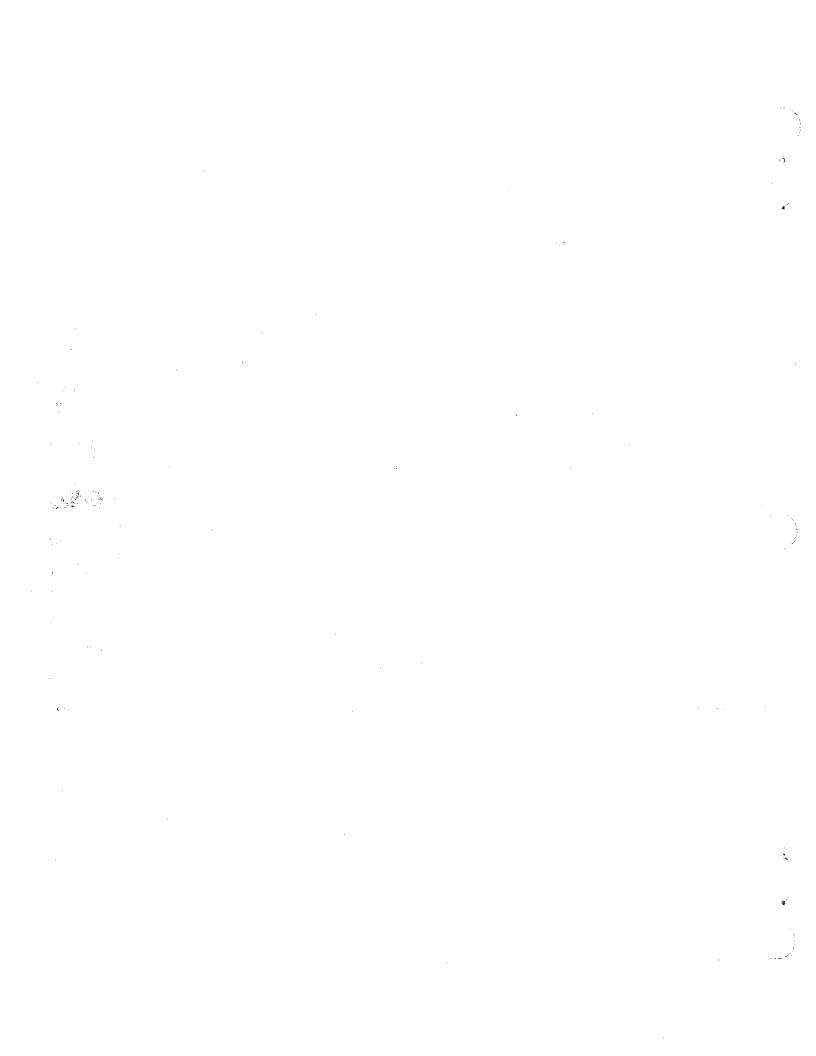
ECONOMIC TRENDS IN KENTUCKY COUNTIES 1969-1987

ANDERSON COUNTY



Prepared by Virginia Wilson Donna A. Cantrell

RESEARCH MEMORANDUM 438 Legislative Research Commission Frankfort, Kentucky February, 1990



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FOREWORD

This publication is one of a set of 120, highlighting economic trends in each county in Kentucky from 1969-1987. This effort is part of the ongoing activities sponsored by the Legislative Research Commission to provide a long-term perspective on issues for decision makers. The economies of individual counties do not always parallel overall state trends. This set of publications is an attempt to look at the economic trends in each county over time and to point out where the economies of individual counties may be performing differently from the economy of the state as a whole.

This publication was prepared by Virginia Wilson and Donna Cantrell. Susan Dance assisted in production of the manuscript and Charles Bush edited the report. The assistance of Carol Straus from the Center for Business and Economic Research at the University of Kentucky in deciphering data is gratefully acknowledged.

Vic Hellard, Jr. Director

The Capitol Frankfort February, 1990

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SUMMARY

The Anderson County economy almost doubled from 1969 to 1987. The county has also increased its share of Kentucky personal income, indicating the county economy is growing at a faster rate than that of the state.

Anderson County economic growth was generated by an economic structure different from that of the state. Anderson County received a much larger percentage of personal income from earnings and a smaller share from transfer payments. The key sectors of economic activity are also different from those of the state. The county manufacturing sector has experienced strong growth in both earnings and employment. Conversely, this sector declined at the state level.

The service sector increased its share of employment, but decreased its share of earnings. While employment at the state level in the service sector has similarly increased, earnings have increased as well. The trade sector is also unlike that for the state in that both county employment and earnings have increased. At the state level, earnings were stable throughout the period, while employment increased significantly.

The high concentration and growth in the manufacturing economy has been beneficial for the local economy, in that manufacturing is a relatively high wage industry. However, manufacturing industries are very sensitive to changes in consumer demand and are generally more susceptible to cyclical economic changes. Consequently, while a high concentration in manufacturing enabled the county to enjoy economic expansion during a period of national economic growth, it may also make the county more susceptible to recessionary contractions.

INTRODUCTION

This is one of a series of reports called <u>Economic Trends in Kentucky Counties</u>. The purpose of this series is to describe the economic structure of Kentucky counties and to assess their economic performance relative to their own history and relative to the Kentucky economy. Information on the structure and patterns of change in county economies and an understanding of their relationship to the Kentucky economy can help in making policy decisions that are intended to shape Kentucky's economic future.*

When assessing any economy there are several pertinent questions which may be addressed. The first concerns changes in the absolute size of the economy over time. Here the relevant comparison is between the county economy and its own history. Since most economic variables are given in dollars and because inflation causes the value of a dollar to vary over time, all dollar values in this report are presented in constant 1988 dollars. This allows analysis of real changes over time by controlling for the effects of inflation.

A second question concerns the structure and nature of the county economy. The structure of an economy refers to the relative share contributed by the various segments of the economy, while the nature deals with how this share has changed over time.

A third question concerns the performance of the county economy when compared to the Kentucky economy. For example, if a county has a higher proportion of earnings or employment in a sector it would indicate a specialization in that sector. Differences in economic structure may explain variations in relative economic well-being between a county and the state as a whole.

Economic data for counties are usually published after a lag of two years. Therefore, most data in this report cover the period 1969 to 1987. All data for this report was obtained from the Kentucky Economic Information System, an on-line database maintained by the University of Kentucky Center for Business and Economic Development.

There are certain caveats which should be remembered when analyzing data. First, it is a common and useful approach to evaluate the percentage an economic sector contributes to the total economy. However, one must remember that a sector's percentage contribution may decline even when its absolute value is increasing if another sector's contribution is growing at a faster rate. Secondly, when reviewing data in graphical analyses, the scales used to present data should be noted. In this report most graphs are presented with the narrowest scale which will cover all data points. This can accentuate visual patterns over time even when absolute changes are relatively small.

^{*}For an analysis of economic trends in Kentucky, see Virginia Wilson, Patterns of Growth and Decline in the Kentucky Economy 1969-1988, Research Memorandum 437, Legislative Research Commission, November 1989.

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ECONOMIC TRENDS IN ANDERSON COUNTY

The following analysis includes a brief description of the Anderson County economy and is accompanied by graphical illustrations. Data tables are included at the end of this report. Three principal components of the Anderson County economy are analyzed. They are:

- 1. Personal Income
- 2. Earnings
- 3. Employment

Personal Income

Personal income is often used as a measure of the economic activity in an area. Personal income is the sum of all the dollar income received by individuals in an area from any legal source. Personal income data is published by the Bureau of Economic Analysis (BEA) for most major geographic regions, including states, counties, and major cities.

In general, income can be obtained in three ways. First, it can be earned by the work of an individual. This type of income includes wage and salary income and proprietors' earnings. Second, income can be earned by property. This component includes earnings from rents, dividends, and interest. Finally, income can be received as a gift or an entitlement. This type of income constitutes the component of personal income called transfer payments. Included in this component is income from sources such as retirement benefits, unemployment benefits, food stamps, and medical programs such as Medicare and Medicaid.

As can be seen in Chart 1A, the Anderson County economy, as measured by personal income, increased from \$88 million in 1969 to \$179 million in 1987, after adjusting for inflation. Chart 1B shows Anderson County total personal income as a percent of Kentucky total personal income. Anderson County has increased its share of Kentucky personal income.

A similar pattern emerges from an examination of per capita personal income. Per capita personal income is simply the total personal income of an area divided by its population. Per capita personal income is often used as a measure of the economic well-being of the residents of an area. Charts 1C and 1D indicate that Anderson County per capita income increased over the time period to a level of \$12,856 per person. In 1987, Anderson County per capita personal income was 102.9 percent of Kentucky per capita personal income.

A better understanding of the nature of economic activity can be gleaned from an examination of the relative contribution of the components of personal income and how their share has changed over time. This information is illustrated in Charts 2A-2D. While total earnings increased from \$73 million in 1969 to \$130 million in 1987 (in constant 1988 dollars), their share of personal income has declined over time. This is also a trend occurring at the

state level. Earnings accounted for 82.9 percent of Anderson County's total personal income in 1987, which was significantly more than Kentucky's 67.5 percent share.

Transfer payments contributed \$7 million to total personal income in 1969 and \$24 million in 1987. During the same period, transfer payments contributed a smaller percentage of personal income in Anderson County than in Kentucky.

Income from property in Anderson County grew at a stable rate through the time period. Income from property totalled \$8 million in 1969 and increased to \$26 million in 1987.

Earnings

Earnings are the component of personal income reflecting payments to individuals in return for labor. Earnings include both wage and salary and proprietor's income. In 1969, Anderson County received 25.3 percent of total earnings from manufacturing. This percentage increased to 33.5 percent in 1987. The county trend toward increasing concentration in manufacturing is different from that for the state, where the percentage of earnings from manufacturing has shown a steady decline over the period.

Chart 3A also indicates that farming's contribution to total county earnings decreased substantially from 21.2 percent in 1969 to 9.5 percent in 1987. Earnings from mining were minimal throughout the period.

Earnings from non-goods-producing industries are illustrated in Chart 3B. The percentage of earnings from the services sector decreased from 13.5 percent in 1969 to 10.9 percent in 1987, whereas the state increased its share of service sector employment. Earnings in both the trade and state and local government sectors have increased. At the state level, the percent of employment from these sectors decreased.

Average earnings per job (adjusted for inflation) for Anderson County and Kentucky are shown in Chart 3D. In Kentucky, average earnings per job reached a high of \$20,121 per person in 1978. Since then, average earnings per job declined and in 1987 they were \$18,636 per person. In Anderson County, average earnings have been cyclical over the period. They were \$15,649 in 1987, which was well below the Kentucky average.

Employment

Employment is considered any activity for which one receives financial remuneration in the form of wages or profits. Total employment in Anderson County increased substantially during the data period. In 1969, total employment stood at 3,477 people. By 1987, that figure had increased to 5,025.

The unemployment rate, often used as an indicator of economic well-being, is the ratio of unemployed to the total civilian labor force. Unemployment is described as a condition of being out of work while actively seeking employment within the last thirty days. The civilian labor force is described as the proportion of population age 16 or older employed or actively seeking employment. Annual unemployment rates for Kentucky and Anderson County are presented in Chart 4B. While unemployment rates in Anderson County have paralleled those of the state, they have generally been lower than state rates. In 1987, the Anderson County unemployment rate was 7.1 percent compared to 8.8 percent for the state.

Another employment concept includes the discouraged worker. Discouraged workers are persons who want jobs but made no attempt to find work in the last thirty days because they believe they could not find it. These individuals are not included when calculating official unemployment rates. The Cabinet for Human Resources does not estimate discouraged workers by county. However, preliminary research by the Cabinet indicates that the inclusion of discouraged workers in the civilian labor force estimate would increase the unemployment rate by approximately four percent for the state. This figure would vary by county depending on the labor market in the county and within commuting distance.

Employment in the goods-producing industries is illustrated in Chart While the percent of Anderson County total employment in agriculture 4C. declined, this sector has been the county's largest source of employment since Manufacturing 1975. In 1987, 20.8 percent of jobs were in the farm sector. employment increased slightly in the early seventies, but later declined to The state trend has also shown a decline in both 19.1 percent in 1987. manufacturing and agricultural employment. It is interesting to note that while the percent of total employment in agriculture is almost equal to that from manufacturing in 1987, the percent of earnings from manufacturing from agriculture, reflecting the higher exceeded those manufacturing industries.

Employment in the non-goods-producing industries is presented in Chart 4D. The growing employment sectors of the Anderson County economy have been services and trade. In 1969, 14.5 percent of jobs were in services and 14.3 percent in trade. In 1987, these shares increased to 17.0 percent and 17.7 percent for the respective sectors. Employment in state and local government has been stable. These employment trends reflect Kentucky employment trends.

Population

The U.S. census conducted each decade obtains an actual count of the population in an area. Population is then statistically estimated for non-census years. The demographic composition of this population growth has important implications for the future demand for goods and services, and ultimately, the economic structure of Anderson County.

The Anderson County population grew from 9,300 in 1969 to 14,000 in 1987 (Chart 5A). The composition of Anderson County's population changed in the early eighties. Prior to this period, the percent of the population under age 6 was similar to that of the state. However, by the mid-eighties this percentage declined relative to the state. By 1986, 7.9 percent of Anderson County's population was under six years of age, compared to 8.6 percent for the state. Another population shift has been evidenced in the population age 60 and over. Prior to the eighties, Anderson County had a higher proportion of senior residents than the state. However, by 1987, 16.1 percent of the Anderson County population fell in this age group, compared to 16.5 percent for Kentucky.

CHART 1A
ANDERSON COUNTY
REAL PERSONAL INCOME
Millions of 1988 dollars

as a Percent of Kentucky Personal Income

ANDERSON COUNTY PERSONAL INCOME

CHART 1B

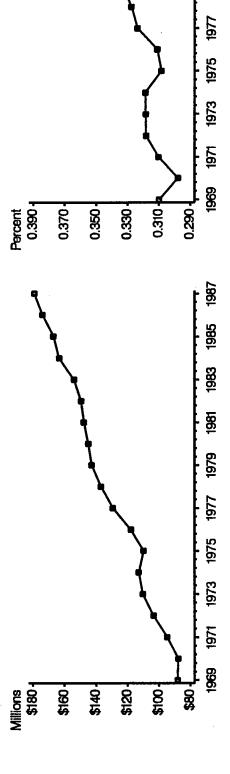


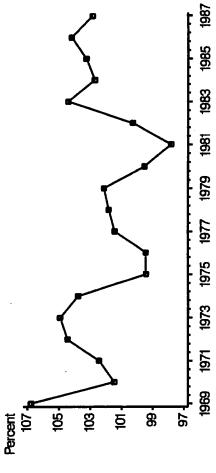
CHART 1D
ANDERSON COUNTY
PER CAPITA PERSONAL INCOME
as a Percent of Kentucky Per Capita Personal Income

1985

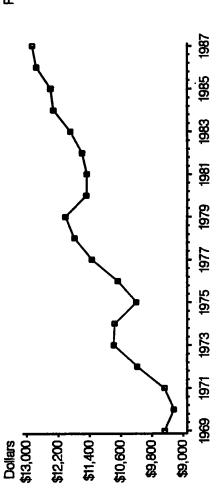
1983

<u> 198</u>

1979







REAL TOTAL EARNINGS Millions of 1988 dollars ANDERSON COUNTY CHART 2A

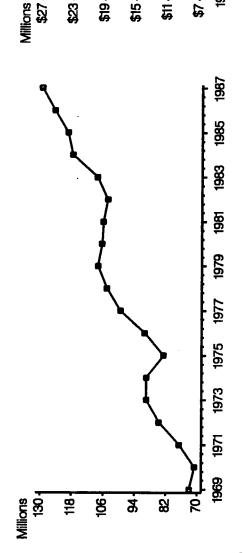
TRANSFER PAYMENTS and INCOME FROM PROPERTY

ANDERSON COUNTY

CHART 2B

Millions of 1988 Dollars

\$27



1983 + PROPERTY <u>8</u> ANDERSON COUNTY 1979 CHART 2D 1977 **a** TRANSFERS 1975 1973 197 1969 **€**19 \$15. 8 듏

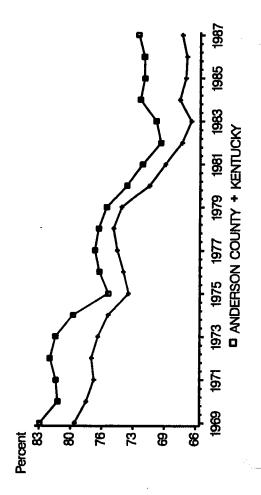
1985

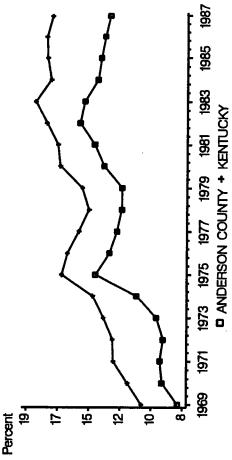
as a Percent of Personal Income TRANSFER PAYMENTS

as a Percent of Personal Income

ANDERSON COUNTY TOTAL EAPNINGS

CHART 2C





ANDERSON COUNTY CHART 3A

EARININGS in NON-GOODS PRODUCING INDUSTRIES

ANDERSON COUNTY

CHART 3B

as a Percent of Total Earnings

EARNINGS IN GOODS PRODUCING INDUSTRIES as a Percent of Total Earnings \$ 8 9 ଷ Percent

EARNINGS in GOODS PRODUCING INDUSTRIES as a Percent of Kentucky Industries ANDERSON COUNTY

1.50+

Percent

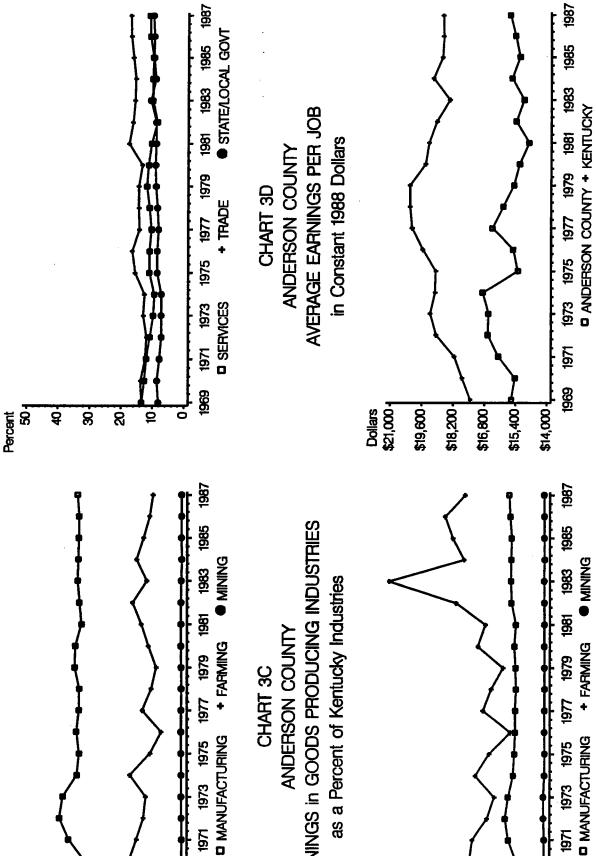
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0.00

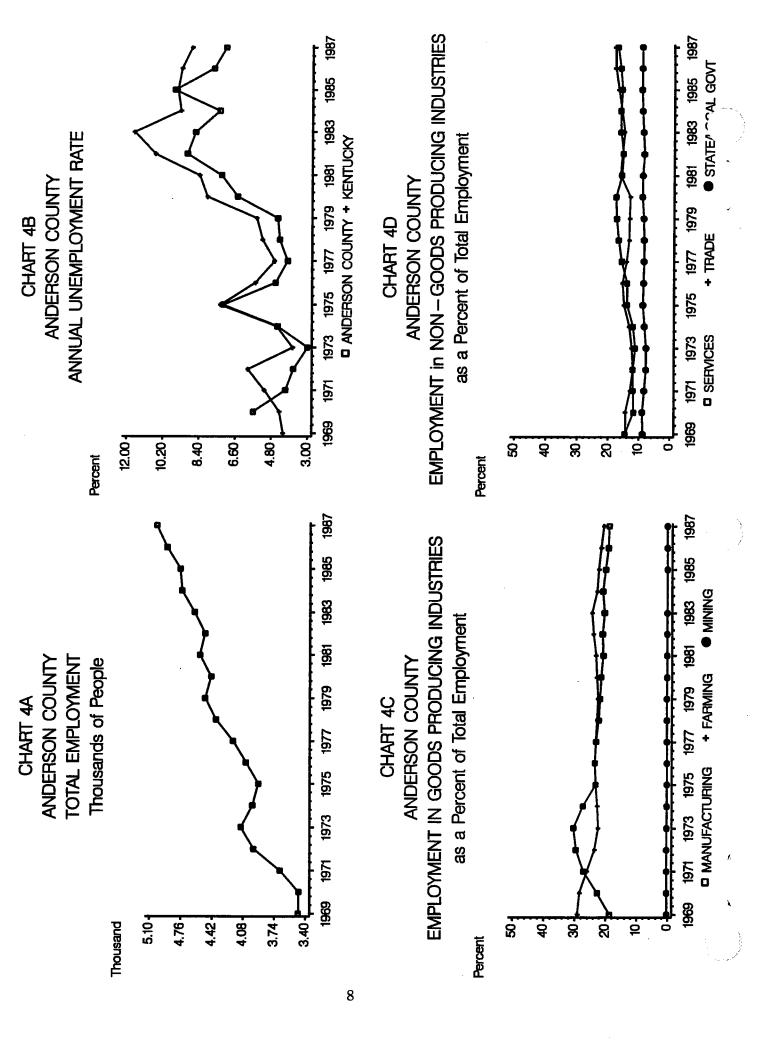
0.60

0.00

0.30



197



1987 1987 1985 1985 1981 1983 as a Percent of Kentucky Population ■ ANDERSON COUNTY + KENTUCKY as a Percent of Total Population POPULATION 60 AND OVER <u> 8</u> ANDERSON COUNTY 1977 1979 1979 **POPULATION** CHART 5D 1977 1975 1975 1973 197 1 1971 1969 Percent 0.380+ 0.309 0.291 14.00 0.362 0.344 0.326 18.00 16.40 14.80 17.20 15.60 **Percent** 1987 1987 1985 **586** ■ ANDERSON COUNTY + KENTUCKY as a Percent of Total Population POPULATION 5 AND UNDER 1861 Thousands of People ANDERSON COUNTY 1977 1979 1979 **POPULATION** CHART 5C 1977 1975 1975 1973 197 <u>197</u> 0000 . 1989 14.00-1 1.89 7.00-9.00 13.00 12.00 11.00 10.00 9.40 7.80 10.20 8.80 Percent 9

ANDERSON COUNTY

CHART 5A

CHART 5B

PERSONAL INCOME In Constant 1988 Dollars

| Year | County Personal Income (M\$) | Percent of Kentucky (%) | Per Capita Personal Income (\$) | Percent of Kentucky (%) |
|------|------------------------------|----------------------------------|--|----------------------------------|
| 1969 | 88 | 0.31 | 9,486 | 106.8 |
| 1970 | 88 | 0.30 | 9,249 | 101.5 |
| 1971 | 95 | 0.31 | 9,483 | 102.5 |
| 1972 | 103 | 0.32 | 10,179 | 104.5 |
| 1973 | 110 | 0.32 | 10,776 | 104.9 |
| 1974 | 113 | 0.32 | 10,753 | 103.8 |
| 1975 | 110 | 0.31 | 10,206 | 99.4 |
| 1976 | 118 | 0.31 | 10,678 | 99.5 |
| 1977 | 129 | 0.32 | 11,338 | 101.4 |
| 1978 | 137 | 0.33 | 11,777 | 101.8 |
| 1979 | 143 | 0.33 | 12,011 | 102.1 |
| 1980 | 145 | 0.34 | 11,480 | 99.5 |
| 1981 | 148 | 0.34 | 11,470 | 97.9 |
| 1982 | 150 | 0.35 | 11,588 | 100.3 |
| 1983 | 154 | 0.36 | 11,884 | 104.4 |
| 1984 | 164 | 0.37 | 12,319 | 102.7 |
| 1985 | 167 | 0.37 | 12,389 | 103.3 |
| 1986 | 174 | 0.38 | 12,750 | 104.2 |
| 1987 | 179 | 0.39 | 12,856 | 102.9 |

COMPONENTS OF PERSONAL INCOME In Constant 1988 Dollars

| | EARNINGS | | TRAI | TRANSFER PAYMENTS | | | INCOME from PROPERTY | | |
|------|----------|-------------------------------|----------|-------------------|--------|--------------------|----------------------|--------|--------------------|
| | | Percent of Personal Income | | | | cent of nal Income | | | cent of nal Income |
| Year | M\$ | County | Kentucky | M\$ | County | Kentucky | M\$ | County | Kentucky |
| 1969 | 73 | 82.9 | 79.2 | 7 | 8.4 | 10.9 | 8 | 8.7 | 9.9 |
| | 71 | | 77.9 | 8 | | 11.9 | 8 | | 10.2 |
| | 77 | | 77.0 | 9 | 9.6 | 12.9 | . 9 | 9.3 | |
| 1972 | 85 | | 77.3 | 10 | | | 9 | | 9.7 |
| 1973 | 90 | | 76.6 | 11 | 9.8 | 13.6 | | 8.9 | |
| | 90 | | 75.5 | 13 | | | | 9.4 | |
| | 83 | | 73.3 | 16 | 14.2 | | 11 | | |
| | 90 | 76.5 | 73.9 | 16 | 13.2 | | 12 | | |
| 1977 | 100 | | 74.6 | 16 | 12.7 | | 13 | | |
| 1978 | 105 | | 75.0 | 17 | 12.3 | 14.6 | 15 | | |
| 1979 | 108 | | 74.1 | 18 | 12.3 | | 17 | | • |
| 1980 | 107 | | 71.1 | 20 | 13.6 | 16.7 | 19 | | |
| 1981 | 106 | | 69.3 | 21 | 14.3 | 16.8 | 21 | | |
| 1982 | 104 | | 67.5 | 23 | 15.3 | 17.6 | 22 | | |
| 1983 | 108 | | 66.6 | 23 | 15.0 | | 23 | | |
| 1984 | 118 | 72.1 | 67.8 | 23 | 14.1 | | 23 | | |
| 1985 | 120 | 71.6 | 67.2 | 23 | | 17.6 | 24 | | |
| 1986 | 125 | 71.7 | 67.1 | 24 | | 17.6 | 26 | | |
| 1987 | 130 | 72.3 | 67.5 | 24 | 13.2 | | 26 | | |

SECTOR EARNINGS as a PERCENT of TOTAL COUNTY EARNINGS and as a PERCENT of KENTUCKY SECTOR EARNINGS

| | MANUF | ACTURING | FARMING | | MINING | |
|--|--|--|--|--|---|--|
| YEAR | TOTAL | KENTUCKY | TOTAL | KENTUCKY | TOTAL | KENTUCKY |
| 1969 1970 1971 1972 1973 1974 1975 1976 1977 1978 1979 1980 1981 1982 1983 | 25.3 30.9 36.3 39.2 38.0 33.7 32.9 33.8 33.0 32.9 34.4 34.2 32.2 | 0.24 0.28 0.36 0.39 0.36 0.31 0.30 0.29 0.29 0.29 0.29 0.29 | 21.2 17.1 14.7 12.5 11.8 16.8 10.4 6.9 12.9 10.0 8.5 11.0 13.3 16.0 | 0.82 0.73 0.70 0.57 0.50 0.68 0.55 0.34 0.60 0.53 0.41 0.65 0.58 | 0.3 0.3 0.4 0.5 0.5 0.5 0.5 0.6 0.6 | 0.02 0.02 0.02 0.02 0.03 0.02 0.01 0.01 0.01 0.01 0.02 0.02 |
| 1983 1984 1985 1986 1987 | 33.4 33.2 33.1 33.0 33.5 | 0.34 0.33 0.33 0.34 0.35 | 11.5 14.7 12.5 10.6 9.5 | 1.50 0.79 0.89 0.97 0.78 | 0.5 0.3 0.4 0.4 0.4 | 0.02 0.01 0.02 0.02 0.02 |

| | SE | SERVICES | | TRADE | | STATE and LOCAL GOVERNMENT | |
|------|-------|----------|-------|----------|-------|----------------------------|--|
| YEAR | TOTAL | KENTUCKY | TOTAL | KENTUCKY | TOTAL | KENTUCKY | |
| 1969 | 13.5 | 0.24 | 13.5 | 0.20 | 8.2 | 0.21 | |
| 1970 | 12.6 | 0.22 | 13.7 | 0.19 | 8.6 | 0.20 | |
| 1971 | 12.0 | 0.22 | 12.3 | 0.19 | 7.8 | 0.19 | |
| 1972 | 10.8 | 0.21 | 11.9 | 0.19 | 7.1 | 0.19 | |
| 1973 | 9.8 | 0.19 | 12.9 | 0.20 | 7.2 | 0.19 | |
| 1974 | 9.4 | 0.18 | 12.5 | 0.19 | 7.2 | 0.19 | |
| 1975 | 11.0 | 0.18 | 15.5 | 0.21 | 8.5 | 0.19 | |
| 1976 | 10.9 | 0.18 | 16.4 | 0.22 | 8.5 | 0.19 | |
| 1977 | 10.3 | 0.17 | 14.2 | 0.20 | 8.1 | 0.19 | |
| 1978 | 11.0 | 0.18 | 14.3 | 0.20 | 8.4 | 0.19 | |
| 1979 | 11.8 | 0.19 | 14.4 | 0.19 | 8.9 | 0.19 | |
| 1980 | 11.3 | 0.17 | 13.3 | 0.18 | 9.1 | 0.19 | |
| 1981 | 10.3 | 0.15 | 17.5 | 0.25 | 8.9 | 0.19 | |
| 1982 | 8.5 | 0.13 | 16.2 | 0.24 | 8.8 | 0.19 | |
| 1983 | 9.9 | 0.14 | 15.6 | 0.23 | 10.6 | 0.23 | |
| 1984 | 9.9 | 0.14 | 15.4 | 0.24 | 9.0 | 0.20 | |
| 1985 | 9.7 | 0.13 | 16.1 | 0.24 | 9.6 | 0.21 | |
| 1986 | 10.7 | 0.14 | 16.8 | 0.26 | 9.5 | 0.21 | |
| 1987 | 10.9 | 0.14 | 17.0 | 0.26 | 9.8 | 0.21 | |

COUNTY EMPLOYMENT by SECTOR

| | MANUFACTURING | | FARMI | NG | MINING | |
|------|---------------|---------------------|------------|---------------------|------------|---------------------|
| YEAR | EMPLOYMENT | PERCENT OF TOTAL | EMPLOYMENT | PERCENT OF TOTAL | EMPLOYMENT | PERCENT OF TOTAL |
| 1969 | 653 | 18.8 | 1,014 | 29.2 | 12 | 0.3 |
| 1970 | 787 | 22.7 | 987 | 28.4 | 11 | 0.3 |
| 1971 | 1,000 | 27.2 | 959 | 26.1 | 11 | 0.3 |
| 1972 | 1,175 | 29.6 | 935 | | 16 | 0.4 |
| 1973 | 1,248 | 30.4 | 918 | 22.4 | 14 | 0.3 |
| 1974 | 1,091 | 27.4 | 902 | 22.7 | 13 | 0.3 |
| 1975 | 909 | 23.2 | 912 | 23.3 | 12 | 0.3 |
| 1976 | 950 | 23.5 | 952 | 23.5 | 11 | 0.3 |
| 1977 | 967 | 23.1 | 970 | 23.2 | 12 | 0.3 |
| 1978 | 974 | 22.2 | 996 | 22.7 | 14 | 0.3 |
| 1979 | 984 | 21.9 | 1,012 | 22.5 | 18 | 0.4 |
| 1980 | 955 | 21.5 | 1,015 | 22.9 | 15 | 0.3 |
| 1981 | 951 | 20.9 | 1,057 | 23.2 | 15 | 0.3 |
| 1982 | 950 | 21.1 | 1,082 | 24.0 | 14 | 0.3 |
| 1983 | 946 | 20.5 | 1,130 | 24.5 | 13 | 0.3 |
| 1984 | 998 | 21.0 | 1,086 | 22.9 | • | • |
| 1985 | 961 | 20.2 | 1,066 | 22.4 | 11 | 0.2 |
| 1986 | 951 | 19.4 | 1,062 | 21.6 | 14 | 0.3 |
| 1987 | 961 | 19.1 | 1,045 | 20.8 | 15 | 0.3 |

| | SERVICES | | TRADE | | STATE and LOCAL GOVERNMENT | | |
|------|------------|---------------------|------------|---------------------|-------------------------------|---------------------|---|
| YEAR | EMPLOYMENT | PERCENT OF TOTAL | EMPLOYMENT | PERCENT OF TOTAL | EMPLOYMENT | PERCENT OF TOTAL | |
| 1969 | 505 | 14.5 | 496 | 14.3 | 304 | 8.7 | |
| 1970 | 405 | 11.7 | 499 | | 309 | | |
| 1971 | 435 | 11.8 | 471 | | 307 | | |
| 1972 | 473 | 11.9 | 474 | 12.0 | 308 | 7.8 | |
| 1973 | 461 | 11.2 | 508 | | 318 | | |
| 1974 | 476 | 12.0 | 525 | 13.2 | 331 | 8.3 | |
| 1975 | 544 | 13.9 | 584 | 14.9 | 344 | | |
| 1976 | 564 | 13.9 | 626 | 15.5 | 347 | 8.6 | |
| 1977 | 659 | 15.7 | 592 | 14.1 | 354 | 8.4 | |
| 1978 | 731 | 16.7 | 579 | 13.2 | 370 | 8.4 | |
| 1979 | 782 | 17.4 | 590 | 13.1 | 386 | 8.6 | |
| 1980 | 778 | 17.6 | 572 | 12.9 | 399 | 9.0 | 1 |
| 1981 | 717 | 15.7 | 737 | | 404 | 8.9 | |
| 1982 | 686 | 15.2 | 703 | 15.6 | 380 | 8.4 | |
| 1983 | 741 | 16.1 | 685 | 14.8 | 402 | 8.7 | |
| 1984 | 767 | 16.1 | 749 | 15.8 | 428 | 9.0 | |
| 1985 | 746 | 15.6 | 800 | 16.8 | 440 | 9.2 | |
| 1986 | 793 | 16.1 | 870 | 17.7 | 448 | 9.1 | |
| 1987 | 855 | 17.0 | 891 | 17.7 | 454 | 9.0 | |

EMPLOYMENT STATISTICS

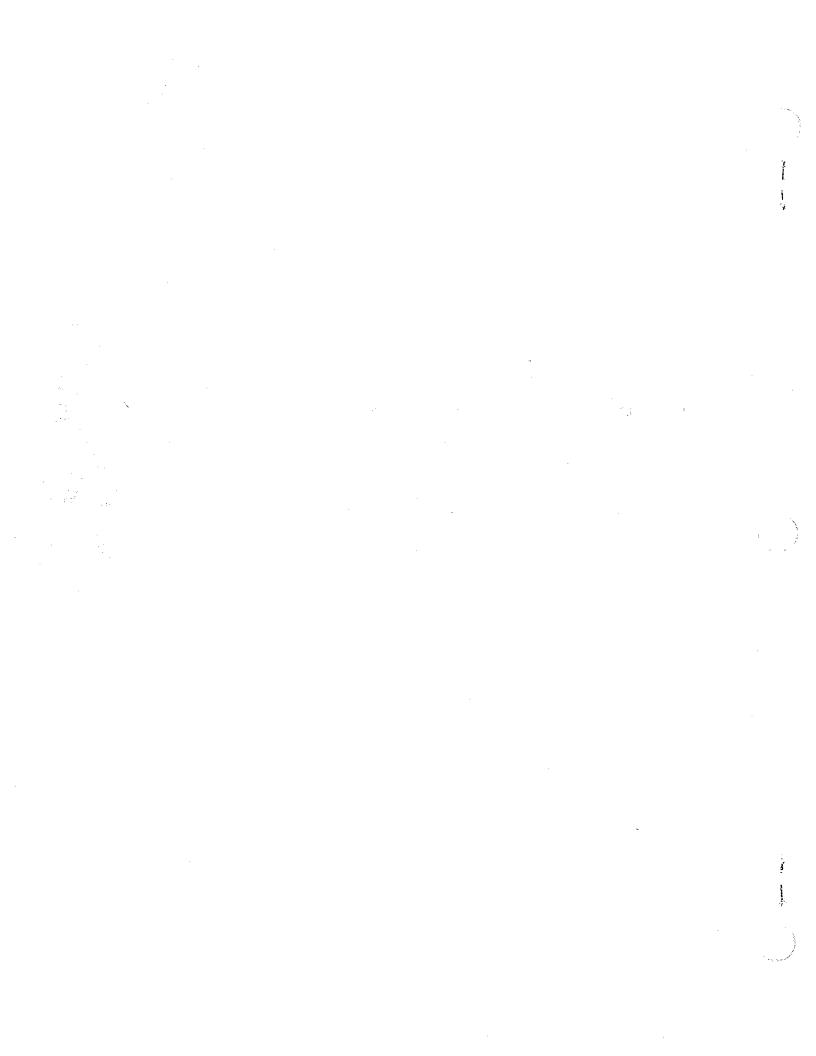
| | | AVERAGE EARNINGS | | UNEMPLOYMENT RATE | |
|------|------------------|---------------------------------------|-----------------|-------------------|----------|
| YEAR | TOTAL EMPLOYMENT | COUNTY | KENTUCKY | COUNTY | KENTUCKY |
| 1969 | 3,477 | \$15,596 | \$17,440 | • | 4.2 |
| 1970 | 3,472 | \$15,428 | \$17,811 | 5.7 | |
| 1971 | 3,679 | \$16,188 | \$18,166 | 4.1 | |
| 1972 | 3,965 | \$16,652 | \$18,970 | 3.7 | |
| 1973 | 4,104 | \$16,627 | \$19,232 | 3.0 | |
| 1974 | 3,979 | \$16,880 | \$19,008 | 4.5 | |
| 1975 | 3,914 | \$15,308 | \$18,976 | 7.2 | |
| 1976 | 4,050 | \$15,517 | \$19,563 | 4.6 | |
| 1977 | 4,190 | \$16,450 | \$20,031 | 4.0 | |
| 1978 | 4,379 | \$15,971 | \$20,031 | 4.4 | |
| 1979 | <u> •</u> | · · · · · · · · · · · · · · · · · · · | • | | |
| | 4,497 | \$15,478 | \$20,110 | 4.5 | |
| 1980 | 4,432 | \$15,239 | \$19,439 | 6.5 | |
| 1981 | 4,554 | \$14,824 | \$19,286 | 7.3 | |
| 1982 | 4,499 | \$15,387 | \$18,931 | .9.0 | |
| 1983 | 4,615 | \$15,048 | \$18,358 | 8.6 | |
| 1984 | 4,750 | \$15,577 | \$19,080 | 7.4 | |
| 1985 | 4,769 | \$15,222 | \$18,676 | 9.6 | |
| 1986 | 4,914 | \$15,416 | \$18,627 | 7.7 | 9.3 |
| 1987 | 5,025 | \$15,649 | \$18,636 | 7.1 | 8.8 |

POPULATION STATISTICS

| | | | PERCENT U | NDER AGE 6 | PERCENT | AGE 60+ |
|------|------------|---------|-----------|------------|---------|----------|
| YEAR | POPULATION | % OF KY | COUNTY | KENTUCKY | COUNTY | KENTUCKY |
| 1969 | 9,300 | 0.29 | • | • | | • |
| 1970 | 9,500 | 0.29 | 10.5 | 10.3 | 16.0 | 14.8 |
| 1971 | 10,000 | 0.30 | 9.3 | 9.6 | 15.7 | 14.8 |
| 1972 | 10,200 | 0.31 | 8.9 | 9.1 | 16.0 | 15.0 |
| 1973 | 10,200 | 0.30 | 8.6 | 8.8 | 16.7 | 15.2 |
| 1974 | 10,500 | 0.31 | 8.5 | 8.6 | 16.9 | 15.3 |
| 1975 | 10,800 | 0.31 | 8.1 | 8.4 | 17.1 | 15.4 |
| 1976 | 11,000 | 0.31 | 8.1 | 8.2 | 17.2 | 15.5 |
| 1977 | 11,400 | 0.32 | 8.1 | 8.4 | 17.2 | |
| 1978 | 11,600 | 0.32 | 8.3 | 8.5 | 17.2 | 15.6 |
| 1979 | 11,900 | 0.33 | 8.4 | 8.7 | 17.1 | 15.8 |
| 1980 | 12,600 | 0.34 | 9.3 | 9.2 | 16.3 | 15.4 |
| 1981 | 12,900 | 0.35 | 9.2 | 9.3 | 16.3 | |
| 1982 | 12,900 | 0.35 | 8.9 | 9.2 | 16.1 | 15.7 |
| 1983 | 13,000 | 0.35 | 8.5 | 9.2 | 16.0 | 15.9 |
| 1984 | 13,300 | 0.36 | 8.2 | 9.0 | 16.1 | 16.1 |
| 1985 | 13,500 | 0.36 | 8.0 | 8.9 | 16.0 | |
| 1986 | 13,700 | 0.37 | 7.9 | 8.6 | 16.1 | 16.5 |
| 1987 | 14,000 | 0.38 | • | • | • | • |

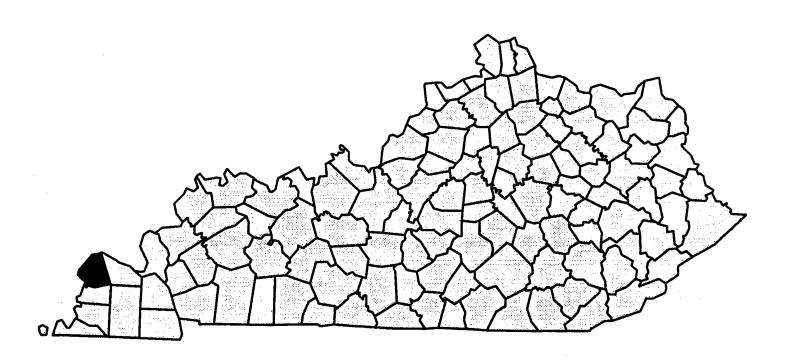
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ECONOMIC TRENDS IN KENTUCKY COUNTIES 1969-1987

BALLARD COUNTY



Prepared by Virginia Wilson Donna A. Cantrell

RESEARCH MEMORANDUM 438 Legislative Research Commission Frankfort, Kentucky February, 1990

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ECONOMIC TRENDS IN KENTUCKY COUNTIES 1969-1987

BALLARD COUNTY

Prepared by Virginia Wilson Donna A. Cantrell

RESEARCH MEMORANDUM 438 Legislative Research Commission Frankfort, Kentucky February, 1990

FOREWORD

This publication is one of a set of 120, highlighting economic trends in each county in Kentucky from 1969-1987. This effort is part of the ongoing activities sponsored by the Legislative Research Commission to provide a long-term perspective on issues for decision makers. The economies of individual counties do not always parallel overall state trends. This set of publications is an attempt to look at the economic trends in each county over time and to point out where the economies of individual counties may be performing differently from the economy of the state as a whole.

This publication was prepared by Virginia Wilson and Donna Cantrell. Susan Dance assisted in production of the manuscript and Charles Bush edited the report. The assistance of Carol Straus from the Center for Business and Economic Research at the University of Kentucky in deciphering data is gratefully acknowledged.

Vic Hellard, Jr. Director

The Capitol Frankfort February, 1990

SUMMARY

The Ballard County economy experienced significant growth from 1969 to 1979. After 1979, the economy, as measured by personal income, actually declined. This pattern of economic growth primarily reflects activity in the goods-producing industries.

The county experienced significant economic restructuring during the period. The manufacturing sector increased significantly, becoming the primary employer and accounting for half of total earnings by 1987. Conversely, the farm sector declined significantly.

While the manufacturing sector has declined statewide, it has grown in Ballard County. The high concentration and growth in the manufacturing sector may have been beneficial for the local economy, since manufacturing is a relatively high wage industry. However, manufacturing industries are very sensitive to changes in consumer demand and are generally more susceptible to economic volatility. Consequently, while a high concentration in manufacturing enabled the county to enjoy economic expansion during a period of national economic growth, it may also make the county more susceptible to recessionary contractions.

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INTRODUCTION

This is one of a series of reports called <u>Economic Trends in Kentucky Counties</u>. The purpose of this series is to describe the economic structure of Kentucky counties and to assess their economic performance relative to their own history and relative to the Kentucky economy. Information on the structure and patterns of change in county economies and an understanding of their relationship to the Kentucky economy can help in making policy decisions that are intended to shape Kentucky's economic future.

When assessing any economy there are several pertinent questions which may be addressed. The first concerns changes in the absolute size of the economy over time. Here the relevant comparison is between the county economy and its own history. Since most economic variables are given in dollars and since inflation causes the value of a dollar to vary over time, all dollar values in this report are presented in constant 1988 dollars. This allows analysis of real changes over time by controlling for the effects of inflation.

A second question concerns the structure and nature of the county economy. The structure of an economy refers to the relative share contributed by the various segments of the economy, while the nature deals with how this share has changed over time.

A third question concerns the performance of the county economy when compared to the Kentucky economy. For example, if a county has a higher proportion of earnings or employment in a particular sector it would indicate a specialization in that sector. Differences in economic structure may explain variations in relative economic well-being between a county and the state as a whole.

Economic data for counties are usually published after a lag of two years. Therefore, most data in this report cover the period 1969 to 1987. All data for this report was obtained from the Kentucky Economic Information System, an on-line database maintained by the University of Kentucky Center for Business and Economic Development.

There are certain caveats which should be remembered when analyzing data. First, it is a common and useful approach to evaluate the percentage an economic sector contributes to the total economy. However, one must remember that a sector's percentage contribution may decline even when its absolute value is increasing if another sector's contribution is growing at a faster rate. Secondly, when reviewing data in graphical analyses, the scales used to present data should be noted. In this report most graphs are presented with the narrowest scale which will cover all data points. This can accentuate visual patterns over time even when absolute changes are relatively small.

For an analysis of economic trends in Kentucky, see Virginia Wilson, Patterns of Growth and Decline in the Kentucky Economy 1969-1988, Research Memorandum 437, Legislative Research Commission, November 1989.

ECONOMIC TRENDS IN BALLARD COUNTY

The following analysis includes a brief description of the county economy and is accompanied by graphical illustrations. Data tables are also included at the end of this report. Three principal components of the Ballard County economy are analyzed. They are:

- 1. Personal Income
- 2. Earnings
- 3. Employment

Personal Income

Personal income is often used as a measure of the economic activity in an area. Personal income is the sum of all the dollar income received by individuals in an area from any legal source. Personal income data is published by the Bureau of Economic Analysis (BEA) for most major geographic regions, including states, counties, and major cities.

In general, income can be obtained in three ways. First, it can be earned by the work of an individual. This type of income includes wage and salary income and proprietors' earnings. Second, income can be earned by property. This component includes earnings from rents, dividends, and interest. Finally, income can be received as a gift or an entitlement. This type of income constitutes the component of personal income called transfer payments. Included in this component is income from sources such as retirement benefits, unemployment benefits, food stamps, and medical programs such as Medicare and Medicaid.

As can be seen in Chart 1A, the Ballard County economy, as measured by personal income, increased from \$73 million in 1969 to \$115 million in 1979, after adjusting for inflation. However, after 1979, personal income declined to \$98 million by 1987. Chart 1B shows Ballard County total personal income as a percent of Kentucky total personal income. Ballard County has decreased its share of Kentucky personal income.

A similar pattern emerges from an examination of per capita personal income. Per capita personal income is simply the total personal income of an area divided by its population. Per capita personal income is often used as a measure of the economic well-being of the residents of an area. Charts 1C and 1D indicate that Ballard County per capita income increased to \$13,262 in 1979 and then declined to a level of \$11,885 per person in 1987, when it was 95.1 percent of Kentucky per capita personal income.

A better understanding of the nature of economic activity can be gleaned from an examination of the relative contribution of the components of personal income and how their shares have changed over time. This information is illustrated in Charts 2A-2D. Total earnings increased from \$56 million in 1969 to \$84 million in 1979. However, similar to personal income, earnings

then declined to \$60 million in 1987. The percent of personal income from earnings declined over time. This trend occurred at the state level as well. In 1987, earnings accounted for 61.0 percent of Ballard County's total personal income, which was significantly lower than Kentucky's 67.5 percent share.

Transfer payments contributed \$11 million to total personal income in 1969 and \$22 million in 1987. During the same period, transfer payments contributed a larger percentage of personal income in Ballard County than in Kentucky.

Income from property in Ballard County grew rapidly in the late 1970's, and leveled off in the 1980's. Income from property totalled \$6 million in 1969 and increased to \$17 million in 1987.

Earnings

Earnings are the component of personal income reflecting payments to individuals in return for labor. Earnings include both wages and salaries and proprietor's income. Ballard County experienced significant restructuring in the goods-producing industries. In 1969, Ballard County received 8.1 percent of total earnings from manufacturing. This percentage increased substantially, to 52.8 percent, in 1987 (Chart 3A). At the state level, manufacturing's share of earnings declined. These two occurrences have resulted in Ballard County increasing its share of state manufacturing earnings. (Chart 3C).

Conversely, the percent of earnings originating from the farm sector has declined substantially. In 1969, 22.0 percent of earnings was derived from farming. By 1987, this share declined to 2.1 percent.

Earnings from non-goods-producing industries as a percent of total earnings are illustrated in Chart 3B. The percent of earnings from the non-goods-producing sectors declined through the 1970's. By the early 1980's, these sectors began to recover their share of total earnings. At the state level, the percent of earnings from services increased significantly, while the percent of earnings from trade and state and local government was stable.

Average earnings per job (adjusted for inflation) for Ballard County and Kentucky are shown in Chart 3D. In Kentucky, average earnings per job reached a high of \$20,121 per person in 1978. Since then, average earnings per job declined and in 1987 they were \$18,636 per person. Average earnings in Ballard County reached a high of \$22,230 in 1979 and then declined to \$17,437 by 1987.

Employment

Employment is considered any activity for which one receives financial remuneration in the form of wages or profits. Total employment in Ballard

then declined to \$60 million in 1987. Earnings' share of personal income declined over time. This trend is occurring at the state level as well. In 1987, earnings accounted for 61.0 percent of Ballard County's total personal income, which was significantly lower than Kentucky's 67.5 percent share.

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Employment

Employment is considered any activity for which one receives financial remuneration in the form of wages or profits. Total employment in Ballard

County increased during the data period. In 1969, total employment stood at 2,803 people. By 1987, that figure had increased to 3,683.

The unemployment rate, often used as an indicator of economic well-being, is the ratio of unemployed to the total civilian labor force. Unemployment is described as a condition of being out of work while actively seeking employment within the last thirty days. The civilian labor force is described as the proportion of population age 16 or older employed or actively seeking employment. Annual unemployment rates for Kentucky and Ballard County are presented in Chart 4B. Unemployment rates in Ballard County have been above those of the state since 1983. In 1987, the county unemployment rate was 11.0 percent, compared to 8.8 percent for Kentucky.

Another employment concept includes the discouraged worker. Discouraged workers are persons who want jobs but made no attempt to find work in the last thirty days because they believe they could not find it. These individuals are not included when calculating official unemployment rates. The Cabinet for Human Resources does not estimate discouraged workers by county. inclusion of preliminary research by the Cabinet indicates that the discouraged workers in the civilian labor force estimate would increase the unemployment rate by approximately four percent for the state. This figure would vary by county depending on the labor market in a county or within commuting distance.

Employment in the goods-producing industries is illustrated in Chart 4C. Manufacturing surpassed farming as the primary source of employment in 1979. The percent of total employment in manufacturing increased from 4.1 percent in 1969 to 26.4 percent in 1987. This trend is unlike that of the state, where manufacturing employment declined.

Similar to county trends in farm earnings, farm employment decreased through the period. The farm sector accounted for 37.0 percent of employment in 1969. This share decreased to 18.8 percent in 1987.

Employment in the non-goods-producing industries is presented in Chart 4D. Employment in the service sector declined in the mid-1970's. However, the service sector increased its share of employment to 16.0 percent of the workforce by 1987. Employment in the trade and state and local government sectors remained constant. At the state level, employment in both the service and trade sectors increased, while government share remained constant.

Population

The census conducted each decade counts the actual population in an area. Population is then statistically estimated during intervening years. The demographic composition of this population growth has important implications for the future demand for goods and services, and ultimately, the economic structure of Ballard County.

The Ballard County population remained essentially unchanged from 1969 to 1987. In 1987, the county population was 8,300 (Chart 5A). Ballard County has a smaller proportion of younger residents and a much larger proportion of older residents than the state. It was estimated that in 1986, 6.6 percent of Ballard County's population was under six years of age, compared to 8.6 percent for the state. Conversely, for the same year 22.3 percent of the Ballard County population was sixty years of age and over, while 16.5 percent of all Kentucky residents fell in this age group.

CHART 1A
BALLARD COUNTY
REAL PERSONAL INCOME
Millions of 1988 dollars

BALLARD COUNTY PERSONAL INCOME

CHART 1B

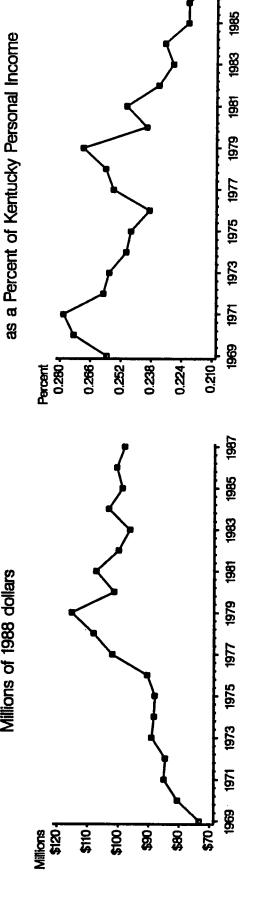


CHART 1D
BALLARD COUNTY
PER CAPITA PERSONAL INCOME
as a Percent of Kentucky Per Capita Personal Income

PER CAPITA PERSONAL INCOME

BALLARD COUNTY

CHART 1C

in Constant 1988 Dollars

1987

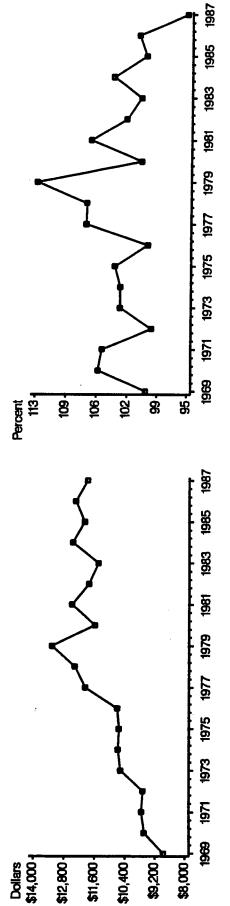


CHART 2A
BALLARD COUNTY
REAL TOTAL EARNINGS
Millions of 1988 dollars

TRANSFER PAYMENTS and INCOME FROM PROPERTY

BALLARD COUNTY

CHART 2B

Millions of 1988 Dollars

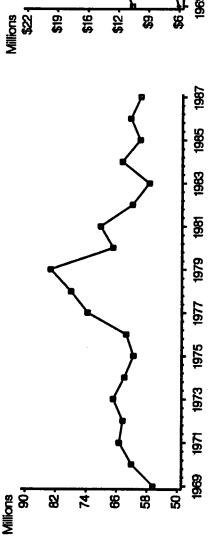
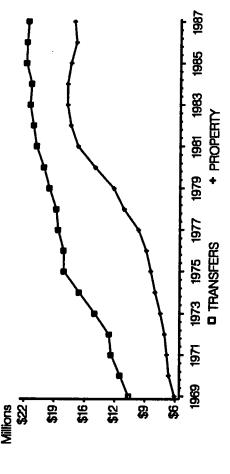
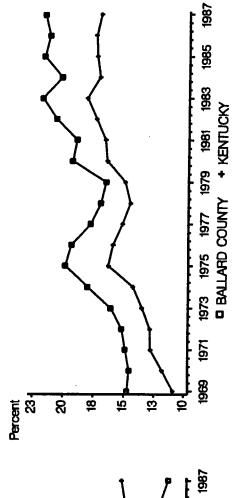
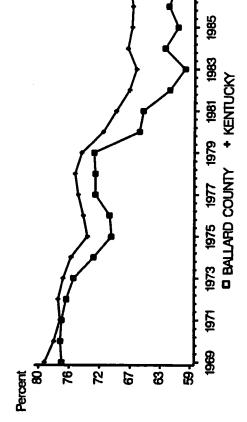


CHART 2C
BALLARD COUNTY
TOTAL EARNINGS
as a Percent of Personal Income

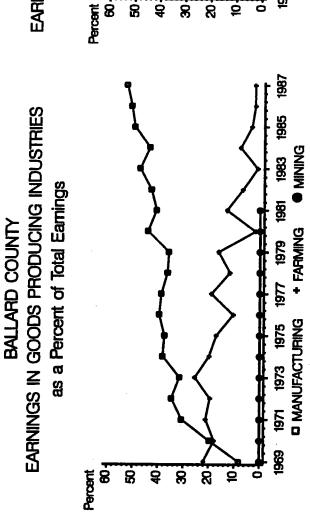






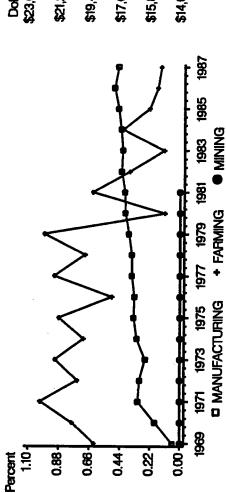


BALLARD COUNTY CHART 3A

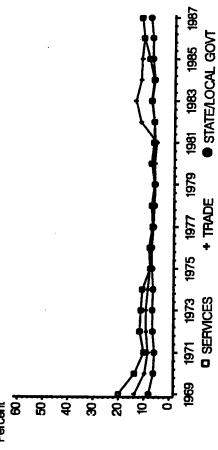


EARNINGS in GOODS PRODUCING INDUSTRIES as a Percent of Kentucky Industries BALLARD COUNTY

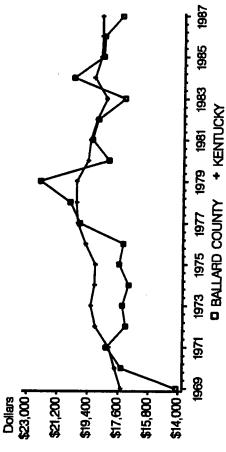
CHART 3C

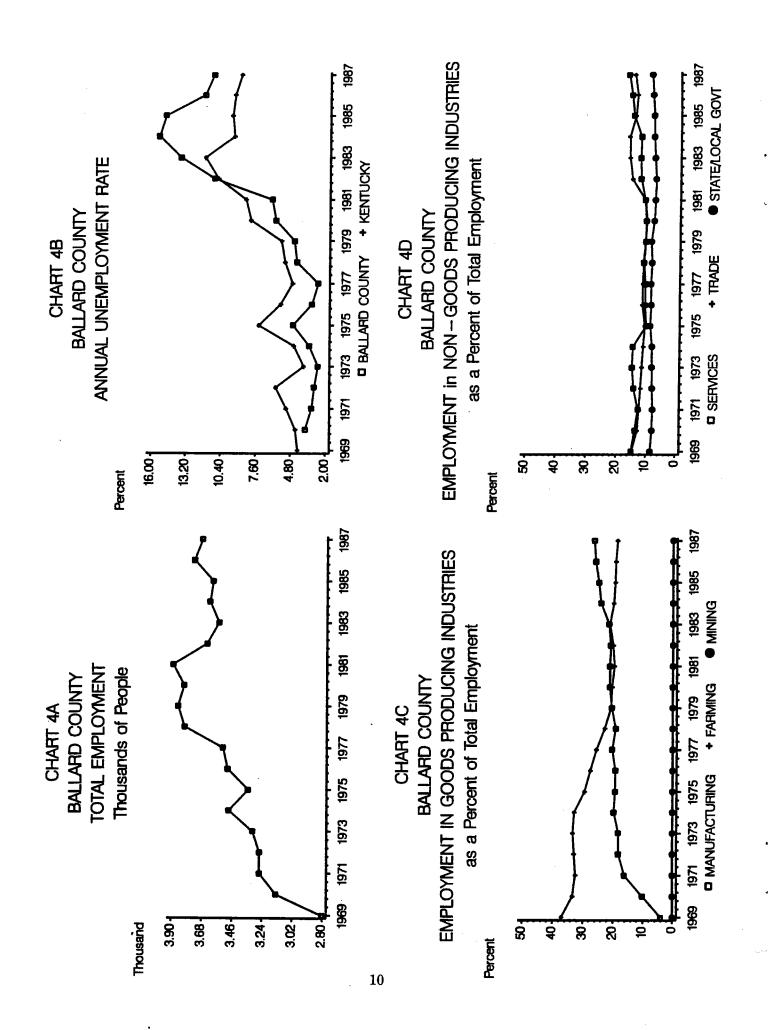


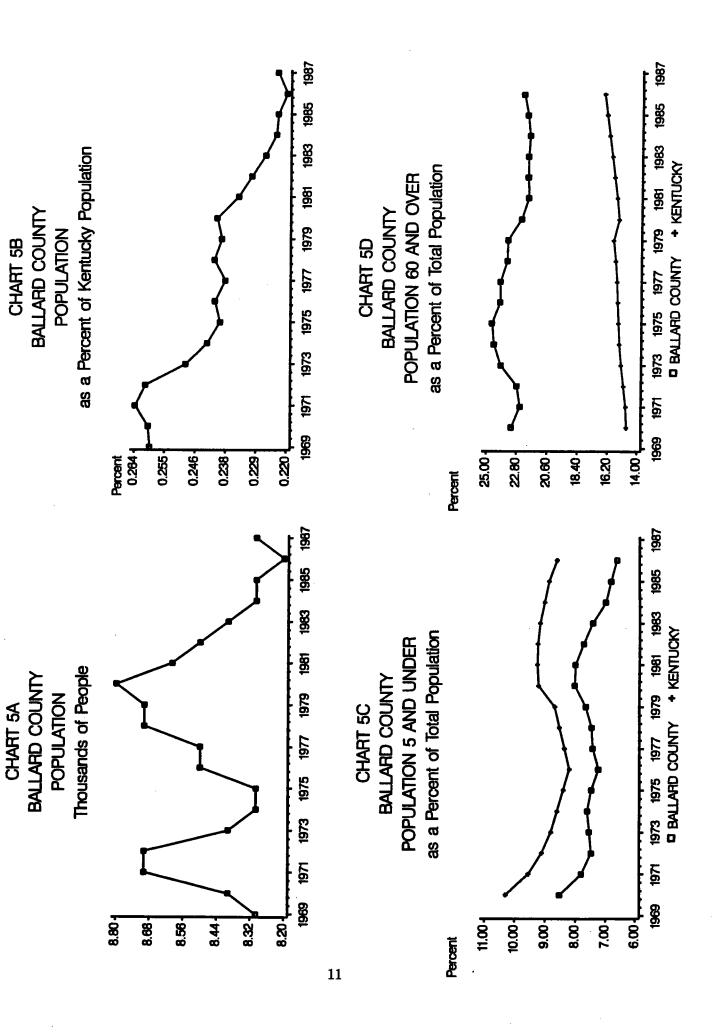
EARININGS in NON-GOODS PRODUCING INDUSTRIES as a Percent of Total Earnings BALLARD COUNTY CHART 3B



AVERAGE EARNINGS PER JOB in Constant 1988 Dollars BALLARD COUNTY CHART 3D







PERSONAL INCOME In Constant 1988 Dollars

| Year | County Personal Income (M\$) | Percent of Kentucky (%) | Per Capita Personal Income (\$) | Percent of Kentucky (%) |
|------|---------------------------------------|----------------------------------|--|----------------------------------|
| 1969 | 73 | 0.26 | 8,876 | 99.9 |
| 1970 | 81 | 0.27 | 9,623 | 105.6 |
| 1971 | 85 | 0.28 | 9,727 | 105.1 |
| 1972 | 85 | 0.26 | 9,669 | 99.2 |
| 1973 | 89 | 0.26 | 10,577 | 103.0 |
| 1974 | 88 | 0.25 | 10,671 | 103.0 |
| 1975 | 88 | 0.25 | 10,635 | 103.6 |
| 1976 | 91 | 0.24 | 10,702 | 99.7 |
| 1977 | 102 | 0.26 | 11,963 | 107.0 |
| 1978 | 108 | 0.26 | 12,372 | 107.0 |
| 1979 | 115 | 0.27 | 13,262 | 112.8 |
| 1980 | 102 | 0.24 | 11,586 | 100.5 |
| 1981 | 107 | 0.25 | 12,480 | 106.5 |
| 1982 | 100 | 0.23 | 11,820 | 102.3 |
| 1983 | 96 | 0.23 | 11,444 | 100.5 |
| 1984 | 103 | 0.23 | 12,449 | 103.8 |
| 1985 | 99 | 0.22 | 11,993 | 100.0 |
| 1986 | 101 | 0.22 | 12,337 | 100.8 |
| 1987 | 98 | 0.21 | 11,885 | 95.1 |

COMPONENTS OF PERSONAL INCOME In Constant 1988 Dollars

| | EARNINGS | | TRAI | TRANSFER PAYMENTS | | | INCOME from PROPERTY | | |
|------|----------------------------|--------|----------|-------------------------------|--------|----------|----------------------|---------|----------|
| | Percent of Personal Income | | | Percent of Personal Income | | | | cent of | |
| Year | M\$ | County | Kentucky | M\$ | County | Kentucky | M\$ | County | Kentucky |
| 1969 | 56 | 76.8 | 79.2 | 11 | 14.9 | 10.9 | 6 | 8.3 | 9.9 |
| 1970 | 62 | 77.0 | 77.9 | 12 | 14.7 | 11.9 | 7 | 8.3 | - |
| 1971 | 65 | 76.8 | 77.0 | 13 | | | 7 | 8.1 | |
| 1972 | 64 | 76.2 | 77.3 | 13 | | | 7 | 8.4 | |
| 1973 | 67 | 75.2 | 76.6 | 15 | 16.3 | 13.6 | 8 | 8.5 | |
| 1974 | 64 | 72.4 | 75.5 | 16 | | | 8 | 9.2 | |
| 1975 | 62 | 70.0 | 73.3 | 18 | 20.2 | 16.5 | 9 | 9.8 | |
| 1976 | 64 | 70.2 | 73.9 | 18 | 19.7 | | 9 | 10.1 | |
| 1977 | 74 | 72.2 | 74.6 | 18 | 18.1 | 15.3 | 10 | 9.7 | 10.1 |
| 1978 | 78 | 72.2 | 75.0 | 19 | 17.2 | 14.6 | 11 | | |
| 1979 | 84 | 72.4 | 74.1 | 19 | 16.8 | 15.1 | 13 | 10.9 | 10.8 |
| 1980 | 67 | 66.1 | 71.1 | 20 | 19.6 | 16.7 | 15 | 14.3 | |
| 1981 | 70 | 65.5 | 69.3 | 21 | 19.3 | | 16 | 15.2 | 13.8 |
| 1982 | 62 | 61.9 | 67.5 | 21 | 21.0 | 17.6 | 17 | 17.1 | |
| 1983 | 58 | 59.7 | 66.6 | 21 | 22.2 | 18.4 | 17 | 18.1 | 15.1 |
| 1984 | 65 | 62.6 | 67.8 | 21 | 20.5 | 17.3 | 17 | 16.9 | 14.9 |
| 1985 | 60 | 60.7 | 67.2 | 22 | 22.0 | | 17 | 17.3 | |
| 1986 | 63 | 62.0 | 67.1 | 22 | 21.6 | 17.6 | 17 | 16.4 | |
| 1987 | 60 | 61.0 | 67.5 | 22 | 22.0 | 17.2 | 17 | 17.0 | 15.3 |

SECTOR EARNINGS as a PERCENT of TOTAL COUNTY EARNINGS and as a PERCENT of KENTUCKY SECTOR EARNINGS

| MANUFACTURING | | ACTURING | FAI | RMING | MINING | | |
|---------------|-------|----------|-------|----------|--------|----------|--|
| YEAR | TOTAL | KENTUCKY | TOTAL | KENTUCKY | TOTAL | KENTUCKY | |
| 1969 | 8.1 | 0.06 | 22.0 | 0.62 | 0.0 | 0.00 | |
| 1970 | 19.7 | 0.18 | 17.9 | 0.78 | 0.0 | 0.00 | |
| 1971 | 30.7 | 0.31 | 21.2 | 1.01 | 0.0 | 0.00 | |
| 1972 | 34.7 | 0.29 | 19.6 | 0.75 | 0.0 | 0.00 | |
| 1973 | 31.5 | 0.25 | 25.5 | 0.91 | 0.0 | 0.00 | |
| 1974 | 38.2 | 0.31 | 19.9 | 0.70 | 0.0 | 0.00 | |
| 1975 | 37.6 | 0.34 | 17.1 | 0.88 | 0.0 | 0.00 | |
| 1976 | 39.7 | 0.33 | 10.4 | 0.50 | 0.0 | 0.00 | |
| 1977 | 38.9 | 0.35 | 19.1 | 0.91 | 0.0 | 0.00 | |
| 1978 | 36.5 | 0.35 | 11.8 | 0.69 | 0.0 | 0.00 | |
| 1979 | 36.0 | 0.37 | 16.3 | 0.98 | 0.0 | 0.00 | |
| 1980 | 44.2 | 0.40 | 1.9 | 0.11 | 0.0 | 0.00 | |
| 1981 | 40.9 | 0.41 | 13.1 | 0.64 | 0.1 | 0.00 | |
| 1982 | 43.0 | 0.43 | 6.9 | 0.37 | • | • | |
| 1983 | 47.5 | 0.42 | 1.0 | 0.12 | • | • | |
| 1984 | 43.7 | 0.43 | 7.9 | 0.42 | • | • | |
| 1985 | 49.7 | 0.45 | 3.4 | 0.23 | • | • | |
| 1986 | 50.9 | 0.48 | 2.0 | 0.17 | • | • | |
| 1987 | 52.8 | 0.45 | 2.1 | 0.14 | • | • | |

| | SERVICES | | T | RADE | STATE and LOCAL GOVERNMENT | | |
|------|----------|----------|-------|----------|----------------------------|----------|--|
| YEAR | TOTAL | KENTUCKY | TOTAL | KENTUCKY | TOTAL | KENTUCKY | |
| 1969 | 20.0 | 0.26 | 13.7 | 0.15 | 8.1 | 0.15 | |
| 1970 | 13.7 | 0.24 | 9.7 | 0.14 | 6.2 | 0.15 | |
| 1971 | 10.0 | 0.18 | 8.4 | 0.13 | 5.9 | | |
| 1972 | 11.7 | 0.19 | 9.2 | 0.13 | 6.6 | 0.15 | |
| 1973 | 11.3 | 0.18 | 9.4 | 0.12 | 6.7 | 0.15 | |
| 1974 | 10.7 | 0.18 | 8.6 | 0.12 | 6.5 | 0.15 | |
| 1975 | 7.7 | 0.12 | 7.7 | 0.10 | 6.9 | 0.15 | |
| 1976 | 7.9 | 0.12 | 8.2 | 0.11 | 7.1 | 0.15 | |
| 1977 | 6.9 | 0.12 | 6.9 | 0.10 | 6.4 | 0.16 | |
| 1978 | 7.2 | 0.13 | 6.6 | 0.10 | 6.2 | 0.16 | |
| 1979 | 6.1 | 0.12 | 5.9 | 0.10 | 5.9 | 0.16 | |
| 1980 | 7.4 | 0.11 | 6.1 | 0.09 | 6.9 | 0.15 | |
| 1981 | 6.5 | 0.11 | 5.3 | 0.09 | 6.0 | 0.14 | |
| 1982 | 6.3 | 0.09 | 11.6 | 0.17 | 6.4 | 0.14 | |
| 1983 | 7.5 | 0.09 | 13.7 | 0.18 | 7.4 | 0.14 | |
| 1984 | 6.6 | 0.09 | 11.6 | 0.18 | 6.3 | 0.14 | |
| 1985 | 8.4 | 0.10 | 11.4 | 0.16 | 7.1 | 0.14 | |
| 1986 | 10.6 | 0.12 | 10.6 | 0.15 | 7.1 | 0.14 | |
| 1987 | 11.5 | 0.12 | 11.5 | 0.15 | 7.9 | 0.14 | |

COUNTY EMPLOYMENT by SECTOR

| MANUFACTURING | | FARMI | NG | MINING | | |
|---------------|------------|---------------------|------------|---------------------|------------|---------------------|
| YEAR | EMPLOYMENT | PERCENT OF TOTAL | EMPLOYMENT | PERCENT OF TOTAL | EMPLOYMENT | PERCENT OF TOTAL |
| 1969 | 114 | 4.1 | 1,037 | 37.0 | 0 | 0.0 |
| 1970 | 317 | 10.1 | 1,049 | 33.4 | 0 | 0.0 |
| 1971 | 528 | 16.2 | | | 0 | 0.0 |
| 1972 | 594 | 18.2 | 1,073 | | Õ | 0.0 |
| 1973 | 604 | 18.2 | 1,104 | | Ö | 0.0 |
| 1974 | 689 | 19.8 | 1,146 | | Ö | 0.0 |
| 1975 | 647 | 19.3 | 985 | | Ō | 0.0 |
| 1976 | 671 | 19.2 | 960 | 27.5 | 0 | 0.0 |
| 1977 | 716 | 20.3 | 899 | 25.5 | 0 | 0.0 |
| 1978 | 728 | 19.1 | 867 | 22.8 | 0 | 0.0 |
| 1979 | 789 | 20.5 | 798 | 20.7 | 0 | 0.0 |
| 1980 | 805 | 21.1 | 776 | 20.4 | 0 | 0.0 |
| 1981 | 823 | 21.1 | 764 | 19.6 | 0 | 0.0 |
| 1982 | 764 | 21.0 | 731 | 20.1 | 0 | 0.0 |
| 1983 | 763 | 21.4 | 754 | 21.2 | 0 | 0.0 |
| 1984 | 874 | 24.1 | 721 | 19.9 | 0 | 0.0 |
| 1985 | 894 | 24.8 | 700 | 19.4 | 0 | 0.0 |
| 1986 | 967 | 25.8 | 720 | 19.2 | 0 | 0.0 |
| 1987 | 971 | 26.4 | 692 | 18.8 | Ō | 0.0 |

| | SERVICES | | TRAD | E | STATE and LOCAL GOVERNMENT | | |
|------|------------|---------------------|------------|---------------------|-------------------------------|---------------------|--|
| YEAR | EMPLOYMENT | PERCENT OF TOTAL | EMPLOYMENT | PERCENT OF TOTAL | | PERCENT OF TOTAL | |
| 1969 | 412 | 14.7 | 405 | 14.4 | 236 | 8.4 | |
| 1970 | 422 | 13.4 | 397 | | 246 | | |
| 1971 | | 12.4 | 394 | | | | |
| 1972 | 455 | 14.0 | 380 | • | | · · | |
| 1973 | | 14.5 | 375 | | | | |
| 1974 | 496 | 14.2 | 378 | 10.8 | 277 | | |
| 1975 | 331 | 9.9 | 347 | 10.4 | | | |
| 1976 | 363 | 10.4 | 392 | 11.2 | 290 | | |
| 1977 | 361 | 10.2 | 390 | 11.1 | | | |
| 1978 | 412 | 10.8 | 414 | | 309 | | |
| 1979 | 394 | 10.2 | 401 | 10.4 | 323 | | |
| 1980 | 387 | 10.2 | 374 | 9.8 | 284 | | |
| 1981 | 411 | 10.6 | 406 | | 280 | 7.2 | |
| 1982 | 436 | 12.0 | 538 | 14.8 | 255 | | |
| 1983 | 431 | 12.1 | 558 | 15.7 | | | |
| 1984 | 431 | 11.9 | 571 | | | | |
| 1985 | 516 | 14.3 | 496 | 13.8 | 280 | | |
| 1986 | 561 | 15.0 | 493 | 13.2 | 301 | 8.0 | |
| 1987 | 588 | 16.0 | 515 | 14.0 | 308 | 8.4 | |

EMPLOYMENT STATISTICS

| | | AVERAGE | EARNINGS | UNEMPLOYMENT RATE | | |
|--|---|--|--|--|--|--|
| YEAR | TOTAL EMPLOYMENT | COUNTY | KENTUCKY | COUNTY | KENTUCKY | |
| 1969 1970 1971 1972 1973 1974 1975 | 2,803 3,139 3,260 3,260 3,311 3,485 3,344 | \$14,129 \$17,424 \$18,301 \$17,166 \$17,365 \$16,980 \$17,567 | \$17,440 \$17,811 \$18,166 \$18,970 \$19,232 \$19,008 \$18,976 | 3.6 3.1 2.9 2.6 3.3 4.6 | 4.2 4.4 5.1 6.0 3.7 4.5 7.3 | |
| 1976 1977 1978 1979 1980 1981 1982 1983 1984 1985 1986 1987 | 3,493 3,528 3,809 3,856 3,812 3,893 3,645 3,558 3,626 3,603 3,741 3,683 | \$17,317 \$19,913 \$20,487 \$22,230 \$18,208 \$19,197 \$18,848 \$17,276 \$20,290 \$18,561 \$18,506 \$17,437 | \$19,563 \$20,031 \$20,121 \$20,110 \$19,439 \$19,286 \$18,931 \$18,358 \$19,080 \$18,676 \$18,676 \$18,636 | 3.1 2.6 4.3 4.5 6.0 6.3 10.9 13.6 15.3 14.8 11.7 | 5.6 4.7 5.3 5.5 8.0 8.4 10.6 11.6 9.3 9.5 9.3 8.8 | |

POPULATION STATISTICS

| | | | PERCENT U | NDER AGE 6 | PERCENT | AGE 60+ |
|------|--------------|---------|-----------|------------|---------|----------|
| YEAR | POPULATION | % OF KY | COUNTY | KENTUCKY | COUNTY | KENTUCKY |
| 1969 | 8,300 | 0.26 | | | | |
| · · | • | 0.26 | • - | • | . • | • |
| 1970 | 8,400 | 0.26 | 8.5 | 10.3 | 23.2 | 14.8 |
| 1971 | 8,700 | 0.26 | 7.8 | 9.6 | 22.6 | 14.8 |
| 1972 | 8,700 | 0.26 | 7.5 | 9.1 | 22.8 | 15.0 |
| 1973 | 8,400 | 0.25 | 7.5 | 8.8 | 24.0 | 15.2 |
| 1974 | 8,300 | 0.24 | 7.6 | 8.6 | 24.5 | 15.3 |
| 1975 | 8,300 | 0.24 | 7.5 | 8.4 | | |
| 1976 | 8,500 | 0.24 | | | 24.6 | 15.4 |
| | · | | 7.2 | 8.2 | 24.0 | 15.5 |
| 1977 | 8,500 | 0.24 | 7.4 | 8.4 | 24.0 | 15.5 |
| 1978 | 8,700 | 0.24 | 7.4 | 8.5 | 23.5 | 15.6 |
| 1979 | 8,700 | 0.24 | 7.6 | 8.7 | 23.5 | 15.8 |
| 1980 | 8,800 | 0.24 | 8.0 | 9.2 | 22.5 | 15.4 |
| 1981 | 8,600 | 0.23 | 8.0 | 9.3 | 22.0 | |
| 1982 | 8,500 | 0.23 | 7.7 | | | 15.5 |
| 1983 | - | | | 9.2 | 22.0 | 15.7 |
| | 8,400 | 0.23 | 7.4 | 9.2 | 22.0 | 15.9 |
| 1984 | 8,300 | 0.22 | 7.0 | 9.0 | 21.9 | 16.1 |
| 1985 | 8,300 | 0.22 | 6.8 | 8.9 | 22.1 | 16.3 |
| 1986 | 8,200 | 0.22 | 6.6 | 8.6 | 22.3 | 16.5 |
| 1987 | 8,300 | 0.22 | • | • | | • |

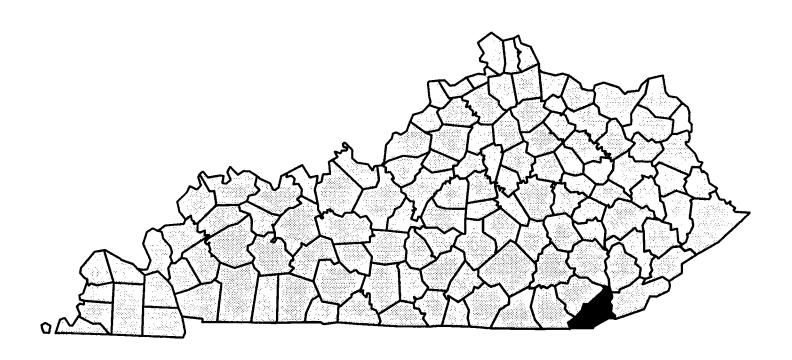
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ECONOMIC TRENDS IN KENTUCKY COUNTIES 1969-1987

BELL COUNTY



Prepared by Virginia Wilson Donna A. Cantrell

RESEARCH MEMORANDUM 438 Legislative Research Commission Frankfort, Kentucky February, 1990

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ECONOMIC TRENDS IN KENTUCKY COUNTIES 1969-1987

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RESEARCH MEMORANDUM 438 Legislative Research Commission Frankfort, Kentucky February, 1990

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FOREWORD

This publication is one of a set of 120, highlighting economic trends in each county in Kentucky from 1969-1987. This effort is part of the ongoing activities sponsored by the Legislative Research Commission to provide a long-term perspective on issues for decision makers. The economies of individual counties do not always parallel overall state trends. This set of publications is an attempt to look at the economic trends in each county over time and to point out where the economies of individual counties may be performing differently from the economy of the state as a whole.

This publication was prepared by Virginia Wilson and Donna Cantrell. Susan Dance assisted in production of the manuscript and Charles Bush edited the report. The assistance of Carol Straus from the Center for Business and Economic Research at the University of Kentucky in deciphering data is gratefully acknowledged.

Vic Hellard, Jr. Director

The Capitol Frankfort February, 1990

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SUMMARY

The Bell County economy, as measured by personal income, grew strongly in the 1970's and declined slightly in the 1980's. Bell County increased its share of Kentucky personal income in the 1970's and decreased its share in the 1980's. Per capita personal income was significantly below that of the state, while average earnings per job were above those of the state. Bell County generates a smaller percent of personal income from earnings and a larger percent from transfer payments than does the state as a whole.

The county economy was heavily impacted by the goods-producing industries of mining and manufacturing. Mine sector earnings and employment shares increased through 1981, then declined. The county's share of earnings and employment from manufacturing declined. These sectors also lost share at the state level.

The service and state and local government sectors in Bell County decreased their shares of employment. The trade sector increased its share. At the state level, the services and trade sectors increased their shares, while the state and local government share was constant.

Events in the international energy markets, specifically a sharp increase in the price of oil, resulted in an increased demand for coal. This provided the impetus for economic growth in Bell County in the mid-to-late 1970's. However, these favorable coal market conditions were not sustained. Earnings and employment from this sector subsequently declined.

The county's high concentration in the mining sector contributed to a volatile economic history and projects an uncertain economic future. Further, this sector is becoming less labor intensive, limiting its future employment potential. This sector is very sensitive to economic fluctuations. Consequently, while a high concentration in mining supported the economy during a period of high energy prices, these conditions will not ensure future economic growth. The non-goods-producing sectors are more resilient. Furthermore, a diversified economy helps to stabilize an area during recessionary periods. Future economic growth in Bell County would probably be enhanced by development of such sectors.

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INTRODUCTION

This is one of a series of reports called <u>Economic Trends in Kentucky Counties</u>. The purpose of this series is to describe the economic structure of Kentucky counties and to assess their economic performance relative to their own history and relative to the Kentucky economy. Information on the structure and patterns of change in county economies and an understanding of their relationship to the Kentucky economy can help in making policy decisions that are intended to shape Kentucky's economic future.*

When assessing any economy there are several pertinent questions which may be addressed. The first concerns changes in the absolute size of the economy over time. Here the relevant comparison is between the Bell County economy and its own history. Since most economic variables are given in dollars and since inflation causes the value of a dollar to vary over time, all dollar values in this report are presented in constant 1988 dollars. This allows analysis of real changes over time by controlling for the effects of inflation.

A second question concerns the structure and nature of the Bell County economy. The structure of an economy refers to the relative share contributed by the various segments of the economy, while the nature deals with how this share has changed over time.

A third question concerns the performance of the Bell County economy when compared to the Kentucky economy. For example, if a county has a higher proportion of earnings or employment in a particular sector it would indicate a specialization in that sector. Differences in economic structure may explain variations in relative economic well being between a county and the state as a whole.

Economic data for counties are usually published after a lag of two years. Therefore, most data in this report cover the period 1969 to 1987. All data for this report was obtained from the Kentucky Economic Information System, an on-line database maintained by the University of Kentucky Center for Business and Economic Development.

There are certain caveats which should be remembered when analyzing data. First, it is a common and useful approach to evaluate the percentage an economic sector contributes to the total economy. However, one must remember that a sector's percentage contribution may decline even when its absolute value is increasing, if another sector's contribution is growing at a faster rate. Secondly, when reviewing data in graphical analyses, the scales used to present data should be noted. In this report most graphs are presented with the narrowest scale which will cover all data points. This can accentuate visual patterns over time even when absolute changes are relatively small.

^{*}For an analysis of economic trends in Kentucky, see Virginia Wilson, Patterns of Growth and Decline in the Kentucky Economy 1969-1988, Research Memorandum 437, Legislative Research Commission, November 1989.

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ECONOMIC TRENDS IN BELL COUNTY

The following analysis includes a brief description of the county economy and is accompanied by graphical illustrations. Data tables are also included at the end of this report. Three principal components of the Bell County economy are analyzed. They are:

- 1. Personal Income
- 2. Earnings
- 3. Employment

Also, because coal production has been an important component in the Kentucky economy and in many local economies, the coal sector is analyzed in counties which have a history of coal production.

Personal Income

Personal income is often used as a measure of the economic activity in an area. Personal income is the sum of all the dollar income received by individuals in an area from any legal source. Personal income data is published by the Bureau of Economic Analysis (BEA) for most major geographic regions, including states, counties, and major cities.

In general, income can be obtained in three ways. First, it can be earned by the work of an individual. This type of income includes wages and salaries income and proprietors' earnings. Second, income can be earned by property. Included are earnings from rents, dividends, and interest. Finally, income can be received as a gift or an entitlement. This type of income constitutes the component of personal income called transfer payments. Included in this component is income from sources such as retirement benefits, unemployment benefits, food stamps, and medical programs such as Medicare and Medicaid.

As can be seen in Chart 1A, the size of the Bell County economy, as measured by real personal income, increased, from \$185 million in 1969 to a high of \$313 million in 1981 (after adjusting for inflation). There was a subsequent decline to \$297 million in 1987. Chart 1B shows Bell County total personal income as a percent of Kentucky total personal income. Bell County's share of Kentucky personal income increased through the 1970's and declined in the 1980's.

A similar pattern emerges from an examination of per capita personal income (Charts 1C and 1D). Per capita personal income is simply the total personal income of an area divided by its population. Per capita personal income is often used as a measure of the economic well-being of the residents of an area. Bell County real per capita income generally increased over the time period to a level of \$8,814 per person in 1987. While Bell County's per capita personal income was 70.5 percent of the Kentucky per capita personal income in 1987, this percentage was down since 1980.

A better understanding of the nature of economic activity can be gleaned from an examination of the relative contribution of the components of personal income and how their shares have changed over time. This information is illustrated in Charts 2A-2D. Total earnings increased from \$130 million in 1969 to a high of \$197 million in 1978, then declined to \$164 million in 1987 (in constant 1988 dollars). Earnings as a percent of personal income declined over the period. This trend occurred at the state level as well. Earnings accounted for 55.3 percent of Bell County's total personal income in 1987, which was significantly less than Kentucky's 67.5 percent share.

Transfer payments contributed \$40 million to total personal income in 1969 and \$89 million in 1987. Transfer payments contributed a much higher percentage of personal income in Bell County than in Kentucky. In 1987, 30.0 percent of Bell County personal income was from transfer payments, compared to 17.2 percent for Kentucky.

Income from property in Bell County grew steadily through the time period. Income from property totalled \$15 million in 1969 and increased to \$44 million in 1987.

Earnings

Earnings are the component of personal income reflecting payments to individuals in return for labor. Earnings include both wages and salaries and proprietor's income. Earnings in the goods-producing industries are illustrated in Chart 3A. In 1969, Bell County received 17.1 percent of its earnings from manufacturing. This percentage decreased to 8.7 percent in 1987. This trend of a decline in the percent of total earnings from manufacturing parallels the state trend.

The mine sector's share of earnings was 9.6 percent in 1969. This sector's share increased dramatically in the late 1970's and accounted for a high of 38.5 percent in 1981. Earnings from this sector declined subsequently to 25.7 percent in 1987. This parallels state trends in the mining sector.

Earnings from non-goods-producing industries are illustrated in Chart 3B. The percent of total earnings from services decreased from 24.2 percent in 1969 to 13.1 percent in 1981, then increased to 19.6 percent in 1987. The percent of earnings from the trade sector decreased in the late 1970's, then increased to 15.7 percent in 1987. The percentage of earnings in both the state and local government sectors decreased from 12.5 percent in 1969 to 7.5 percent in 1978, then increased to 11.6 percent in 1987. The declines in these sectors likely reflect activity in the mining sector rather than absolute declines. At the state level, the share of earnings from services increased, while trade and government were stable.

Average earnings per job (adjusted for inflation) for Bell County and Kentucky are shown in Chart 3D. In Kentucky, average earnings per job reached a high of \$20,121 per person in 1978. Average earnings per job have since declined and in 1987 they were \$18,636 per person. Similarly, in Bell County earnings per job increased during the 1970's, then decreased to a level of \$18,873 in 1987.

Employment

Employment is considered to be any activity for which one receives financial remuneration in the form of wages or profits. In 1969, total employment stood at 9,352 people. By 1987, employment had increased to 11,805 people.

The unemployment rate, often used as an indicator of economic well-being, is the ratio of unemployed to the total civilian labor force. Unemployment is described as a condition of being out of work while actively seeking employment within the last thirty days. The civilian labor force is described as the proportion of population age 16 or older employed or actively seeking employment. Annual unemployment rates for Kentucky and Bell County are presented in Chart 4B. Bell County unemployment rates were above those of the state during the period. In 1987, the unemployment rate in Bell County was 13.5 percent, compared to 8.8 percent in Kentucky.

Another employment concept includes the discouraged worker. Discouraged workers are persons who want jobs but made no attempt to find work in the last thirty days because they believe they could not find it. These individuals are not included when calculating official unemployment rates. The Cabinet for Human Resources does not estimate discouraged workers by county. However, preliminary research by the Cabinet indicates that the inclusion of discouraged workers in the civilian labor force estimate would increase the unemployment rate by approximately 4 percent for the state. This figure would vary by county depending on the labor market in a county or within commuting distance.

Employment in the goods-producing industries is illustrated in Chart 4C. The percent of Bell County total employment in manufacturing decreased over the time period. Manufacturing represented 17.7 percent of total employment in 1969. This decreased to 9.5 percent in 1987. The mining sector represented 5.7 percent of total employment in 1969. The mine sector employment share increased to 20.3 percent in 1981. However, this share declined through the 1980's to 13.3 percent in 1987. These trends parallel the employment trends for the state.

Bell County employment in the non-goods-producing industries is illustrated in Chart 4D. Employment in the service sector as a percent of total employment decreased from 24.8 percent in 1969 to 20.4 percent in 1987. The percent of employment in trade increased from 18.5 percent in 1969 to 25.4 percent in 1987. The percent of employment in state and local government decreased from 15.7 percent in 1969 to 11.6 percent in 1987. At the state level, the percents of employment in the service and trade sectors increased, while the percent in state and local government was stable.

Population

The census conducted each decade counts the actual population in an area. Population is then statistically estimated during intervening years. The demographic composition of this population growth has important

implications for the future demand for goods and services, and ultimately, the economic structure of Bell County.

The Bell County population grew from 31,500 in 1969 to 34,700 in 1983, then declined to 33,600 in 1987 (Chart 5A). It was estimated that in 1986, 8.9 percent of Bell County's population was under six years of age, compared to 8.6 percent for the state. In the same year, 17.3 percent of the Bell County population was sixty years of age or over, compared to 16.5 percent of all Kentucky residents.

Coal

* The coal sector provides significant income and employment to the Kentucky economy. This sector also contributes directly to the Commonwealth's General Fund revenues through severance tax collections. Coal production had a strong impact on the Bell County economy.

Bell County coal production patterns are presented in Chart 6A. Coal production is estimated by the Energy Information Administration of the U.S. Department of Energy. Estimates of production are calculated from a sample of coal shipments from each county. Coal production increased significantly during the period, to a high of 6,670 thousand tons in 1981. This production increase was likely stimulated by changes in international energy markets. Specifically, a sharp increase in the price of oil resulted in increased demand for coal by utilities and resulted in increases in the price of coal. In 1986, 5,661 thousand tons of coal was mined in Bell County.

Employment in the mining sector, which includes coal and other forms of mining, is illustrated in Chart 6B. In 1969, this sector provided 536 jobs in Bell County. This increased to 2,369 in 1981. By 1987, mining employment declined to 1,567 people.

The average value per ton for coal is illustrated in Chart 6C. Similar to patterns for the national coal market, average value per ton increased in the 1970's, then declined during the 1980's.

Coal severance tax receipts are presented in Chart 6D. The Kentucky Revenue Cabinet collects severance taxes on processed coal. Receipts are then allocated to counties, based on the value of the coal mined in the county and the value attributed to any processing done in the county. Therefore, trends in severance tax collections may not exactly parallel those of the coal production figures in Chart 6A. Bell County coal severance tax collections totalled \$8.3 million in 1986.

as a Percent of Kentucky Per Capita Personal Income 1985 1985 as a Percent of Kentucky Personal Income 1983 1983 PER CAPITA PERSONAL INCOME 2 <u>8</u> PERSONAL INCOME 1979 BELL COUNTY BELL COUNTY 1979 CHART 1B CHART 1D 1977 1977 1975 1973 1973 197 **197** 1969 <u>\$</u> 0.750 0.630 Percent 0.726 0.702 0.678 0.654 6 76 74 ġ 8 K Percent 1987 1987 **1985** 1985 <u>1983</u> PER CAPITA PERSONAL INCOME REAL PERSONAL INCOME 188 8 in Constant 1988 Dollars Millions of 1988 dollars 1979 BELL COUNTY BELL COUNTY 1979 CHART 1A CHART 1C 1977 1977 1975 1975 1973 1973 1971 1971 1969 <u>196</u> \$320+ \$208 \$180 \$236 \$10,000 + \$6,000 \$5,000 \$232 \$264 000'6\$ \$8,000 \$7,000 Dollars

1987

TRANSFER PAYMENTS and INCOME FROM PROPERTY 1985 1985 1983 1983 + PROPERTY as a Percent of Personal Income 1981 1981 Millions of 1988 Dollars TRANSFER PAYMENTS 1979 1979 BELL COUNTY BELL COUNTY CHART 2B CHART 2D 1977 1977 1973 1975 1977 BELL COUNTY **D** TRANSFERS 1973 1975 197 1971 1969 \$10 \$100+ \$46 828 **8**82 **8** 흗 \$ 28 ä 8 16 Percent 1987 1987 1985 1985 1983 1981 1983 as a Percent of Personal Income 188 REAL TOTAL EARNINGS Millions of 1988 dollars TOTAL EARNINGS 1979 579 1979 BELL COUNTY BELL COUNTY CHART 2A CHART 2C 1977 1975 1977 BELL COUNTY 1975 1973 1971 197 1969 1969 Millions \$200 \$136 \$120 \$184 \$168 \$152. 엾 56 ġ 74 છું Percent

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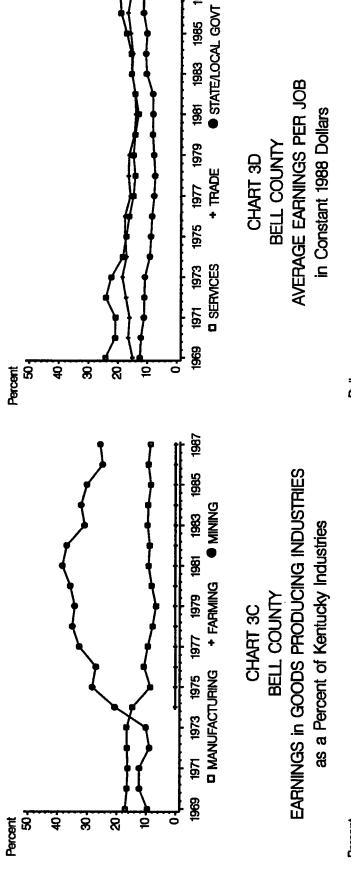
CHART 3A
BELL COUNTY
EARNINGS IN GOODS PRODUCING INDUSTRIES
as a Percent of Total Earnings

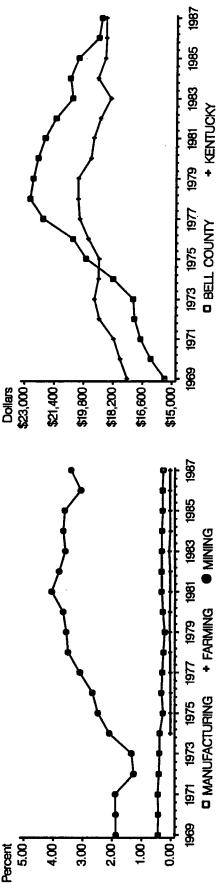
EARININGS in NON-GOODS PRODUCING INDUSTRIES

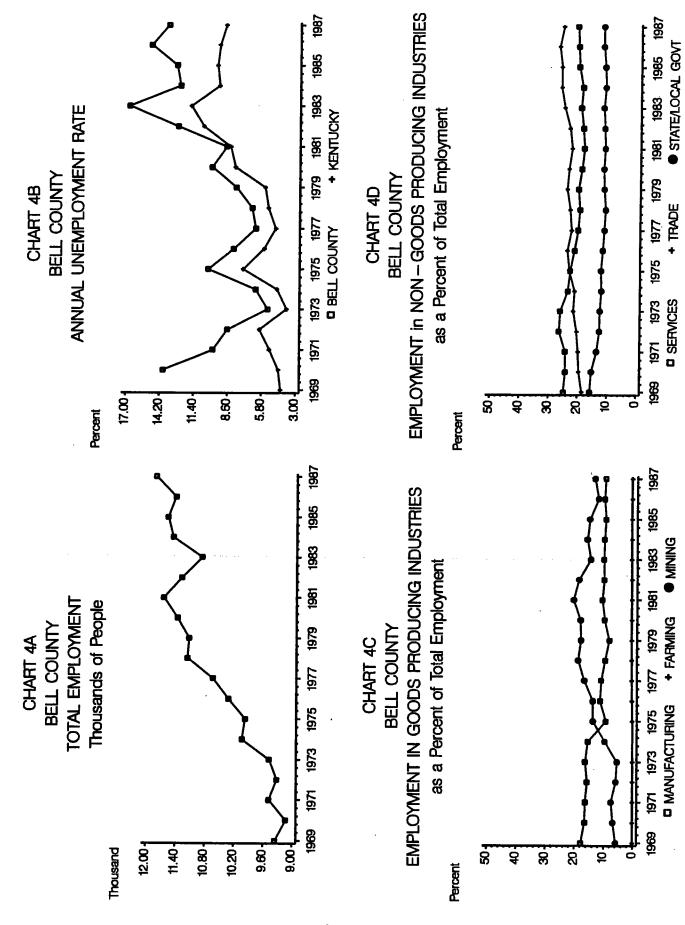
BELL COUNTY

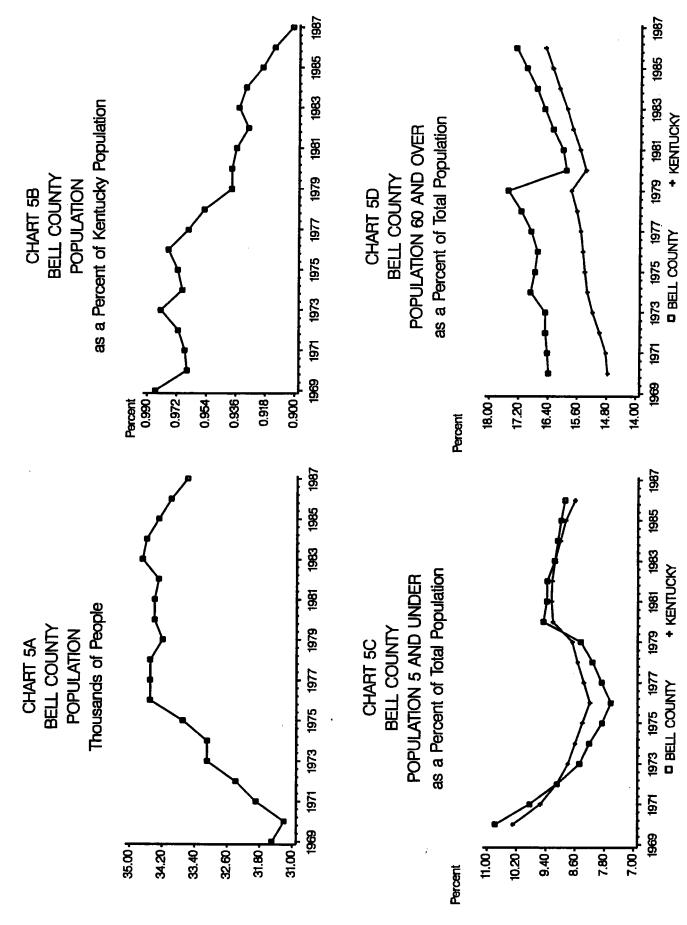
CHART 3B

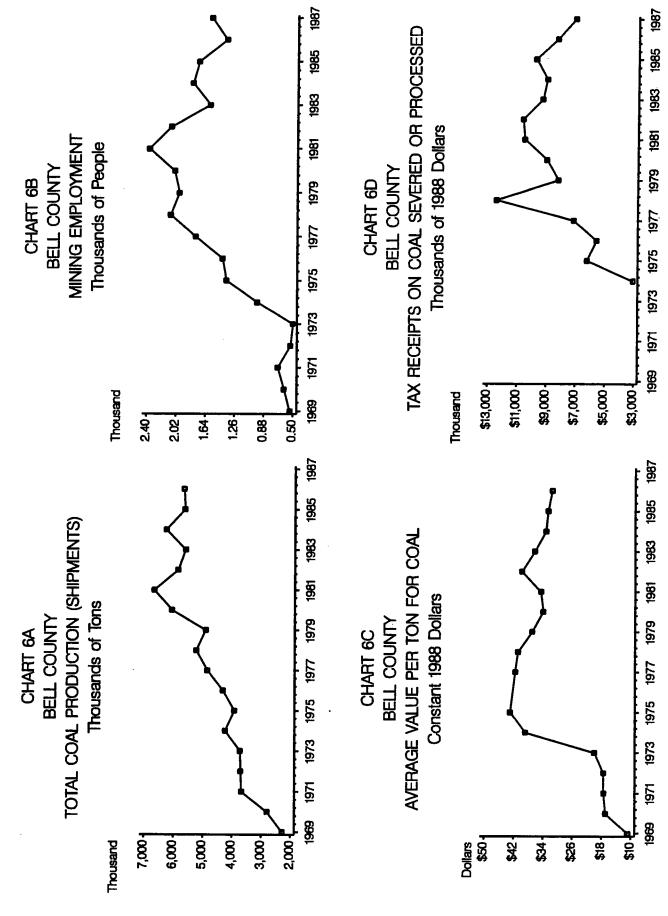
as a Percent of Total Earnings











BELL COUNTY

PERSONAL INCOME In Millions of 1988 Dollars

| Year | County Personal Income (M\$) | Percent of Kentucky (%) | Per Capita Percent Personal of Income Kentucky (\$) (%) |
|------|---------------------------------------|----------------------------------|---|
| 1969 | 185 | 0.65 | 5,891 66.3 |
| 1970 | 198 | 0.67 | 6,338 69.5 |
| 1971 | 212 | 0.69 | 6,649 71.8 |
| 1972 | 217 | 0.67 | 6,692 68.7 |
| 1973 | 232 | 0.67 | 7,013 68.3 |
| 1974 | 246 | 0.70 | 7,456 72.0 |
| 1975 | 264 | 0.74 | 7,849 76.5 |
| 1976 | 277 | 0.73 | 8,033 74.8 |
| 1977 | 292 | 0.73 | 8,454 75.6 |
| 1978 | 303 | 0.72 | 8,779 75.9 |
| 1979 | 310 | 0.72 | 9,070 77.1 |
| 1980 | 311 | 0.74 | 9,059 78.5 |
| 1981 | 313 | 0.73 | 9,102 77.7 |
| 1982 | 305 | 0.72 | 8,889 76.9 |
| 1983 | 295 | 0.70 | 8,506 74.7 |
| 1984 | 305 | 0.68 | 8,820 73.6 |
| 1985 | 300 | 0.67 | 8,757 73.0 |
| 1986 | 295 | 0.65 | 8,681 70.9 |
| 1987 | 297 | 0.64 | 8,814 70.5 |

COMPONENTS OF PERSONAL INCOME In Constant 1988 Dollars

| | | EARNII | NGS | TRAI | NSFER P | AYMENTS | INCOM | E from 1 | PROPERTY |
|--|---|--|--|--|--|--|--|--|---|
| | | | cent of nal Income | | | cent of | | | cent of nal Income |
| Year | M\$ | County | Kentucky | M\$ | County | Kentucky | M\$ | County | Kentucky |
| 1969 1970 1971 1972 1973 1974 1975 1976 1977 1978 1979 1980 1981 1982 | 130 133 140 139 142 154 164 172 187 193 188 186 179 | 70.1 67.2 65.8 64.2 61.2 62.3 62.0 62.2 64.1 65.2 69.3 59.3 | 79.2 77.9 77.0 77.3 76.6 75.5 73.3 73.9 74.6 75.0 74.1 71.1 69.3 67.5 | 40 48 54 58 70 77 76 89 88 87 | 21.8 24.2 25.6 26.8 29.5 28.7 28.7 28.5 26.4 25.1 27.9 28.5 28.0 28.5 | 10.9 11.9 12.9 12.9 13.6 14.4 16.5 16.1 15.3 14.6 15.1 16.7 16.8 17.6 | 15 17 18 20 22 23 25 26 27 29 31 34 40 39 | 8.1 8.7 8.6 9.0 9.3 9.5 9.3 9.4 9.6 9.9 11.0 12.7 | 9.9 10.2 10.1 9.7 9.7 10.1 10.1 10.0 10.1 10.4 10.8 12.2 13.8 14.9 |
| 1983 1984 1985 1986 1987 | 165 174 170 162 164 | 56.1 57.2 56.6 54.9 55.3 | 66.6 67.8 67.2 67.1 67.5 | 92 90 89 90 89 | 31.2 29.6 29.5 30.6 30.0 | 18.4 17.3 17.6 17.6 | 37 40 42 43 44 | 12.7 13.2 13.9 14.5 | 15.1 14.9 15.3 15.3 |

BELL COUNTY

SECTOR EARNINGS as a PERCENT of TOTAL COUNTY EARNINGS and as a PERCENT of KENTUCKY SECTOR EARNINGS

| | MANUFACTURING | | FAI | FARMING | | MINING | |
|--|--|--|---|--|--|--|--|
| YEAR | TOTAL | KENTUCKY | TOTAL | KENTUCKY | TOTAL | KENTUCKY | |
| 1969 1970 1971 1972 1973 1974 1975 1976 1977 1978 | 17.1 16.6 16.3 16.5 16.7 14.7 8.6 10.8 9.5 7.9 6.7 | 0.43 0.42 0.43 0.40 0.38 0.37 0.26 0.31 0.29 0.25 0.20 | 0.1 0.1 0.1 0.1 0.1 0.2 | 0.01 0.02 0.01 0.02 0.03 0.04 | 9.6 12.4 12.4 8.9 10.1 20.7 28.3 27.0 32.7 35.1 34.3 | 1.86 1.87 1.88 1.27 1.34 2.09 2.49 2.68 3.09 3.50 3.56 | |
| 1980 1981 1982 1983 1984 1985 1986 1987 | 8.2 9.3 8.9 9.6 9.4 8.5 9.4 | 0.27 0.31 0.31 0.31 0.30 0.27 0.28 0.26 | 0.2 0.2 0.2 0.1 0.1 0.1 0.1 | 0.04 0.03 0.03 0.06 0.02 0.03 0.04 0.03 | 35.8 38.5 37.1 31.0 32.2 30.3 25.0 25.7 | 3.67 4.05 3.80 3.59 3.66 3.61 3.06 3.39 | |

| | SE | SERVICES | | TRADE | | STATE and LOCAL GOVERNMENT | |
|------|-------|----------|-------|----------|-------|-------------------------------|--|
| YEAR | TOTAL | KENTUCKY | TOTAL | KENTUCKY | TOTAL | KENTUCKY | |
| 1969 | 24.2 | 1.13 | 15.1 | 0.59 | 12.5 | 0.85 | |
| 1970 | 20.9 | 0.99 | 16.5 | | 12.2 | 0.80 | |
| 1971 | 20.8 | 1.01 | 16.1 | 0.66 | 11.2 | 0.74 | |
| 1972 | 24.1 | 1.12 | 17.3 | 0.67 | 11.0 | 0.70 | |
| 1973 | 22.2 | 1.00 | 18.5 | 0.69 | 10.9 | 0.69 | |
| 1974 | 18.4 | 0.95 | 17.2 | 0.73 | 9.2 | 0.67 | |
| 1975 | 17.2 | 0.93 | 17.6 | 0.78 | 8.8 | 0.65 | |
| 1976 | 16.2 | 0.87 | 17.7 | 0.79 | 8.5 | 0.64 | |
| 1977 | 14.8 | 0.85 | 15.9 | 0.77 | 7.8 | 0.63 | |
| 1978 | 14.2 | 0.84 | 16.5 | 0.81 | 7.5 | 0.62 | |
| 1979 | 14.8 | 0.84 | 16,3 | 0.78 | 7.9 | 0.62 | |
| 1980 | 14.2 | 0.80 | 14.6 | 0.76 | 8.3 | 0.66 | |
| 1981 | 13.1 | 0.73 | 14.0 | 0.77 | 8.2 | 0.67 | |
| 1982 | 14.3 | 0.73 | 14.3 | 0.74 | 8.3 | 0.63 | |
| 1983 | 15.5 | 0.70 | 15.3 | 0.73 | 10.5 | 0.73 | |
| 1984 | 15.6 | 0.70 | 15.2 | 0.74 | 10.7 | 0.77 | |
| 1985 | 17.2 | 0.73 | 15.9 | 0.76 | 10.4 | 0.71 | |
| 1986 | 19.2 | 0.70 | 16.8 | 0.74 | 11.5 | 0.71 | |
| 1987 | 19.6 | 0.69 | 15.7 | 0.69 | 11.6 | 0.72 | |

BELL COUNTY

COUNTY EMPLOYMENT by SECTOR

| | MANUFACTURING | | FARMI | FARMING | | MINING | | |
|------|---------------|---------------------|------------|---------------------|------------|---------------------|--|--|
| YEAR | EMPLOYMENT | PERCENT OF TOTAL | EMPLOYMENT | PERCENT OF TOTAL | EMPLOYMENT | PERCENT OF TOTAL | | |
| 1969 | 1,659 | 17.7 | 13 | 0.1 | 536 | 5.7 | | |
| 1970 | 1,500 | 16.4 | 13 | 0.1 | 613 | 6.7 | | |
| 1971 | 1,539 | 16.2 | 12 | 0.1 | 695 | 7.3 | | |
| 1972 | 1,457 | 15.6 | 12 | 0.1 | 532 | 5.7 | | |
| 1973 | 1,543 | 16.3 | 12 | 0.1 | 500 | 5.3 | | |
| 1974 | 1,544 | 15.4 | • | • | 968 | 9.6 | | |
| 1975 | 924 | 9.3 | 25 | 0.3 | 1,369 | 13.7 | | |
| 1976 | 1,160 | 11.2 | 38 | 0.4 | 1,419 | 13.8 | | |
| 1977 | 1,161 | 10.9 | 48 | 0.5 | 1,770 | 16.6 | | |
| 1978 | 1,059 | 9.5 | 54 | 0.5 | 2,094 | 18.8 | | |
| 1979 | 895 | 8.0 | 56 | 0.5 | 1,981 | 17.8 | | |
| 1980 | 1,109 | 9.8 | 57 | 0.5 | 2,041 | 18.0 | | |
| 1981 | 1,234 | 10.6 | 62 | 0.5 | 2,369 | 20.3 | | |
| 1982 | 1,123 | 10.0 | 59 | 0.5 | 2,084 | 18.5 | | |
| 1983 | 1,096 | 10.1 | 63 | 0.6 | 1,585 | 14.6 | | |
| 1984 | 1,131 | 9.9 | 61 | 0.5 | 1,808 | 15.8 | | |
| 1985 | 1,082 | 9.4 | 60 | 0.5 | 1,730 | 15.0 | | |
| 1986 | 1,128 | 9.9 | 60 | 0.5 | 1,370 | 12.0 | | |
| 1987 | 1,122 | 9.5 | 58 | 0.5 | 1,567 | 13.3 | | |

| | SERVICES | | TRADE | | STATE and LOCAL GOVERNMENT | |
|------|------------|---------------------|------------|---------------------|-------------------------------|---------------------|
| YEAR | EMPLOYMENT | PERCENT OF TOTAL | EMPLOYMENT | PERCENT OF TOTAL | EMPLOYMENT | PERCENT OF TOTAL |
| 1969 | 2,322 | 24.8 | 1,726 | 18.5 | 1,472 | 15.7 |
| 1970 | 2,202 | 24.1 | 1,781 | 19.5 | 1,387 | 15.2 |
| 1971 | 2,295 | 24.2 | 1,869 | 19.7 | 1,279 | 13.5 |
| 1972 | 2,461 | 26.4 | 1,886 | 20.2 | 1,167 | 12.5 |
| 1973 | 2,464 | 26.0 | 2,033 | 21.5 | 1,175 | 12.4 |
| 1974 | 2,344 | 23.4 | 2,111 | 21.0 | 1,193 | 11.9 |
| 1975 | 2,254 | 22.6 | 2,283 | 22.9 | 1,204 | 12.1 |
| 1976 | 2,174 | 21.1 | 2,432 | 23.6 | 1,184 | 11.5 |
| 1977 | 2,117 | 19.9 | 2,361 | 22.2 | 1,163 | 10.9 |
| 1978 | 2,158 | 19.3 | 2,531 | 22.7 | 1,178 | 10.6 |
| 1979 | 2,207 | 19.8 | 2,644 | 23.8 | 1,231 | 11.1 |
| 1980 | 2,132 | 18.8 | 2,639 | 23.2 | 1,280 | 11.3 |
| 1981 | 2,099 | 18.0 | 2,581 | 22.2 | 1,268 | 10.9 |
| 1982 | 2,072 | 18.4 | 2,583 | 22.9 | 1,250 | 11.1 |
| 1983 | 2,080 | 19.1 | 2,702 | 24.9 | 1,243 | 11.4 |
| 1984 | 2,131 | 18.6 | 2,984 | 26.1 | 1,239 | 10.8 |
| 1985 | 2,299 | 19.9 | 3,006 | 26.0 | 1,275 | 11.0 |
| 1986 | 2,301 | 20.2 | 3,053 | 26.8 | 1,328 | 11.6 |
| 1987 | 2,408 | 20.4 | 2,994 | 25.4 | 1,365 | 11.6 |

BELL COUNTY

EMPLOYMENT STATISTICS

| | | AVERAGE | EARNINGS | UNEMPLO | YMENT RATE |
|------|------------------|----------|----------|---------|------------|
| YEAR | TOTAL EMPLOYMENT | COUNTY | KENTUCKY | COUNTY | KENTUCKY |
| 1969 | 9,352 | \$15,389 | \$17,440 | | 4.2 |
| 1970 | 9,131 | \$16,136 | \$17,811 | 13.9 | 4.4 |
| 1971 | 9,476 | \$16,709 | \$18,166 | 9.8 | 5.1 |
| 1972 | 9,315 | \$17,043 | \$18,970 | 8.6 | 6.0 |
| 1973 | 9,472 | \$17,109 | \$19,232 | 5.3 | 3.7 |
| 1974 | 10,032 | \$18,193 | \$19,008 | 6.3 | 4.5 |
| 1975 | 9,972 | \$19,678 | \$18,976 | 10.2 | 7.3 |
| 1976 | 10,312 | \$20,387 | \$19,563 | 8.1 | 5.6 |
| 1977 | 10,635 | \$21,992 | \$20,031 | 6.3 | 4.7 |
| 1978 | 11,155 | \$22,709 | \$20,121 | 6.6 | 5.3 |
| 1979 | 11,120 | \$22,541 | \$20,110 | 7.9 | 5.5 |
| 1980 | 11,361 | \$22,282 | \$19,439 | 9.9 | 8.0 |
| 1981 | 11,644 | \$21,909 | \$19,286 | 8.7 | 8.4 |
| 1982 | 11,270 | \$21,333 | \$18,931 | 12.7 | 10.6 |
| 1983 | 10,862 | \$20,433 | \$18,358 | 16.7 | 11.6 |
| 1984 | 11,453 | \$20,564 | \$19,080 | 12.5 | 9.3 |
| 1985 | 11,561 | \$20,109 | \$18,676 | 12.8 | 9.5 |
| 1986 | 11,405 | \$19,044 | \$18,627 | 14.9 | 9.3 |
| 1987 | 11,805 | \$18,873 | \$18,636 | 13.5 | 8.8 |

POPULATION STATISTICS

| | | | PERCENT | UNDER 6 | PERCE | NT 60+ |
|------|------------|---------|---------|----------|--------|----------|
| YEAR | POPULATION | % OF KY | COUNTY | KENTUCKY | COUNTY | KENTUCKY |
| 1969 | 31,500 | 0.98 | | | | |
| 1970 | 31,200 | 0.97 | 10.8 | 10.3 | 16.4 | 110 |
| 1971 | 31,900 | 0.97 | 9.8 | | | 14.8 |
| | • | | | 9.6 | 16.4 | 14.8 |
| 1972 | 32,400 | 0.97 | 9.1 | 9.1 | 16.5 | |
| 1973 | 33,100 | 0.98 | 8.5 | 8.8 | 16.5 | 15.2 |
| 1974 | 33,100 | 0.97 | 8.2 | 8.6 | 16.9 | 15.3 |
| 1975 | 33,700 | 0.97 | 7.9 | 8.4 | 16.8 | |
| 1976 | 34,500 | 0.98 | 7.6 | 8.2 | 16.7 | |
| 1977 | 34,500 | 0.97 | 7.9 | 8.4 | 16.9 | |
| 1978 | 34,500 | 0.96 | 8.1 | 8.5 | 17.1 | |
| 1979 | 34,200 | 0.94 | 8.4 | 8.7 | 17.5 | 15.8 |
| 1980 | 34,400 | 0.94 | 9.5 | 9.2 | 15.9 | |
| 1981 | 34,400 | 0.94 | 9.4 | 9.3 | 16.0 | 15.5 |
| 1982 | 34,300 | 0.93 | 9.4 | 9.2 | 16.3 | |
| 1983 | 34,700 | 0.93 | 9.2 | 9.2 | 16.5 | 15.9 |
| 1984 | 34,600 | 0.93 | 9.1 | 9.0 | 16.7 | 16.1 |
| 1985 | 34,300 | 0.92 | 9.0 | 8.9 | 17.0 | |
| 1986 | 34,000 | 0.91 | 8.9 | 8.6 | 17.3 | 16.5 |
| 1987 | 33,600 | 0.90 | • | • | • | • |

BELL COUNTY

COAL MINING STATISTICS

| YEAR | PRODUCTION (Thousand Tons) | EMPLOYMENT | AVERAGE VALUE PER TON | COAL TAX RECEIPTS (000) |
|------|----------------------------|------------|--------------------------|-------------------------------|
| 1969 | 2,284 | 536 | \$10.84 | |
| 1970 | 2,803 | 613 | \$16.92 | • |
| 1971 | 3,678 | 695 | \$17.41 | • |
| 1972 | 3,704 | 532 | \$17.49 | • |
| 1973 | 3,728 | 500 | \$20.01 | • |
| 1974 | 4,236 | 968 | \$38.80 | \$3, 060 |
| 1975 | 3,924 | 1,369 | \$42.92 | \$6,221 |
| 1976 | 4,317 | 1,419 | • | \$5,571 |
| 1977 | 4,855 | 1,770 | \$41.57 | \$7,132 |
| 1978 | 5,230 | 2,094 | \$40.81 | \$12,404 |
| 1979 | 4,911 | 1,981 | \$36.92 | \$8,222 |
| 1980 | 6,061 | 2,041 | \$33.94 | \$9,006 |
| 1981 | 6,670 | 2,369 | \$34.57 | \$10,522 |
| 1982 | 5,857 | 2,084 | \$39.82 | \$10,635 |
| 1983 | 5,602 | 1,585 | \$36.26 | \$9,301 |
| 1984 | 6,265 | 1,808 | \$33.27 | \$8,994 |
| 1985 | 5,628 | 1,730 | \$32.70 | \$9,747 |
| 1986 | 5,661 | 1,370 | \$31.62 | \$8,298 |
| 1987 | • | 1,567 | • | • |

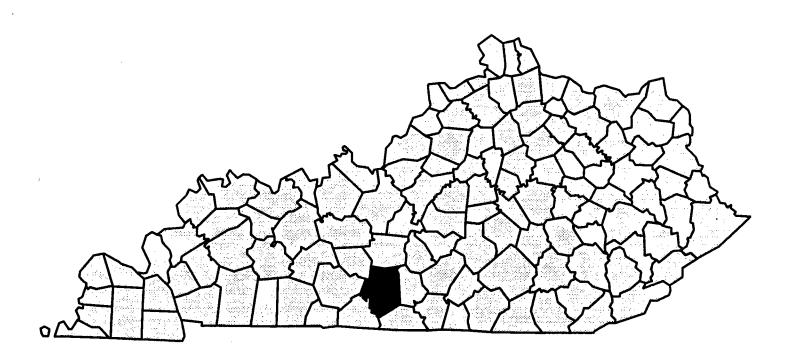
Note: All dollar figures are presented in constant 1988 dollars.

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ECONOMIC TRENDS IN KENTUCKY COUNTIES 1969-1987

BARREN COUNTY



Prepared by Virginia Wilson Donna A. Cantrell

RESEARCH MEMORANDUM 438 Legislative Research Commission Frankfort, Kentucky February, 1990

KY 65 ,L3rm No.438

ECONOMIC TRENDS IN KENTUCKY COUNTIES 1969-1987

BARREN COUNTY

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RESEARCH MEMORANDUM 438 Legislative Research Commission Frankfort, Kentucky February, 1990

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FOREWORD

This publication is one of a set of 120, highlighting economic trends in each county in Kentucky from 1969-1987. This effort is part of the ongoing activities sponsored by the Legislative Research Commission to provide a long-term perspective on issues for decision makers. The economies of individual counties do not always parallel overall state trends. This set of publications is an attempt to look at the economic trends in each county over time and to point out where the economies of individual counties may be performing differently from the economy of the state as a whole.

This publication was prepared by Virginia Wilson and Donna Cantrell. Susan Dance assisted in production of the manuscript and Charles Bush edited the report. The assistance of Carol Straus from the Center for Business and Economic Research at the University of Kentucky in deciphering data is gratefully acknowledged.

Vic Hellard, Jr. Director

The Capitol Frankfort February, 1990

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SUMMARY

The Barren County economy experienced strong economic growth over the last two decades. In fact, the county increased its share of Kentucky personal income, indicating the economy is growing at a faster rate than the state.

The county economy has experienced significant economic restructuring, characterized by an increase in the manufacturing sector and a decline in the farming sector. At the state level, both the farm and the manufacturing sectors declined.

The service sector has also experienced growth in Barren County. This is similar to state and national trends, where the service sector is the fastest growing component of the economy.

The high concentration and growth in the manufacturing sector has been beneficial for the local economy. This is partly attributed to relatively high wages in this sector. However, manufacturing industries are very sensitive to national economic trends and are generally more susceptible to economic declines. Consequently, while a high concentration in manufacturing enabled the county to enjoy economic expansion during a period of economic growth, it may also make the county more susceptible to recessionary contractions.

On the positive side, the service sector is less cyclical. Therefore, the increase in this sector may help to support the county economy in recessionary periods.

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INTRODUCTION

This is one of a series of reports called <u>Economic Trends in Kentucky Counties</u>. The purpose of this series is to describe the economic structure of Kentucky counties and to assess their economic performance relative to their own history and relative to the Kentucky economy. Information on the structure and patterns of change in county economies and an understanding of their relationship to the Kentucky economy can help in making policy decisions that are intended to shape Kentucky's economic future.*

When assessing any economy there are several pertinent questions which may be addressed. The first concerns changes in the absolute size of the economy over time. Here the relevant comparison is between the county economy and its own history. Since most economic variables are given in dollars and because inflation causes the value of a dollar to vary over time, all dollar values in this report are presented in constant 1988 dollars. This allows analysis of real changes over time by controlling for the effects of inflation.

A second question concerns the structure and nature of the county economy. The structure of an economy refers to the relative share contributed by the various segments of the economy, while the nature deals with how this share has changed over time.

A third question concerns the performance of the county economy when compared to the Kentucky economy. For example, if a county has a higher proportion of earnings or employment in a sector it would indicate a specialization in that sector. Differences in economic structure may explain variations in relative economic well-being between a county and the state as a whole.

Economic data for counties are usually published after a lag of two years. Therefore, most data in this report cover the period 1969 to 1987. All data for this report was obtained from the Kentucky Economic Information System, an on-line database maintained by the University of Kentucky Center for Business and Economic Development.

There are certain caveats which should be remembered when analyzing data. First, it is a common and useful approach to evaluate the percentage an economic sector contributes to the total economy. However, one must remember that a sector's percentage contribution may decline even when its absolute value is increasing if another sector's contribution is growing at a faster rate. Secondly, when reviewing data in graphical analyses, the scales used to present data should be noted. In this report most graphs are presented with the narrowest scale which will cover all data points. This can accentuate visual patterns over time even when absolute changes are relatively small.

^{*}For an analysis of economic trends in Kentucky, see Virginia Wilson, Patterns of Growth and Decline in the Kentucky Economy 1969-1988, Research Memorandum 437, Legislative Research Commission, November 1989.

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ECONOMIC TRENDS IN BARREN COUNTY

The following analysis includes a brief description of the county economy and is accompanied by graphical illustrations. A series of data tables is also included at the end of this report. Three principal components of the Barren County economy are analyzed. They are:

- 1. Personal Income
- 2. Earnings
- 3. Employment

Personal Income

Personal income is often used as a measure of the economic activity in an area. Personal income is the sum of all the dollar income received by individuals in an area from any legal source. Personal income data is published by the Bureau of Economic Analysis (BEA) for most major geographic regions, including states, counties, and major cities.

In general, income can be obtained in three ways. First, it can be earned by the work of an individual. This type of income includes wage and salary income and proprietors' earnings. Second, income can be earned by property. This component includes earnings from rents, dividends, and interest. Finally, income can be received as a gift or an entitlement. This type of income constitutes the component of personal income called transfer payments. Included in this component is income from sources such as retirement benefits, unemployment benefits, food stamps, and medical programs such as Medicare and Medicaid.

As can be seen in Chart 1A, the size of the Barren County economy, as measured by personal income, increased from \$214 million in 1969 to \$382 million in 1987, after adjusting for inflation. Chart 1B shows Barren County total personal income as a percent of Kentucky total personal income. Barren County has increased its share of Kentucky personal income, indicating economic growth that is exceeding that of the state.

A similar pattern emerges from an examination of per capita personal income. Per capita personal income is simply the total personal income of an area divided by its population. Per capita personal income is often used as a measure of the economic well-being of the residents of an area. Charts 1C and 1D indicate that while Barren County per capita income increased over the time period to a level of \$11,081 per person in 1987, Barren County per capita personal income was still only 88.7 percent of Kentucky per capita personal income.

A better understanding of the nature of economic activity can be gleaned from an examination of the relative contribution of the components of personal income and how their share has changed over time. This information is illustrated in Charts 2A-2D. While total earnings increased from \$168 million

in 1969 to \$252 million in 1987 (in constant 1988 dollars), earnings as a percent of personal income declined, paralleling the state trend. Earnings accounted for 66.0 percent of Barren County's total personal income in 1987, compared to Kentucky's 67.5 percent share.

Transfer payments contributed \$26 million to total personal income in 1969 and \$69 million in 1987. During the seventies, transfer payments contributed an almost equal percentage of personal income in Barren County and in Kentucky. However, transfer payments have contributed a slightly higher percent of personal income in the eighties.

Income from property in Barren County also grew through the time period. Income from property totalled \$20 million in 1969 and increased to \$61 million in 1987.

Earnings

Earnings are the component of personal income reflecting payments to individuals in return for labor. Earnings include both wages and salaries and proprietor's income. Since 1969, Barren County has experienced significant economic restructuring, as indicated in Chart 3A. In 1969, Barren County received 24.1 percent of total earnings from manufacturing. This percentage increased to 36.9 percent in 1987. The county trend toward increasing concentration in manufacturing is different from that for the state, where the percentage of earnings from manufacturing has shown a steady decline over the period. Chart 3A also indicates that farming's contribution to total county earnings decreased from 20.4 percent in 1969 to 3.4 percent in 1987. Earnings from mining were minimal throughout the period.

Compared to earnings from goods-producing industries, earnings from non-goods-producing industries (Chart 3B) remained relatively stable. The percent of earnings from the service sector increased from 13.2 percent in 1969 to 18.1 percent in 1987, which parallels state trends. Earnings in trade declined from 17.2 percent in 1969 to 12.4 percent in 1987. The percent of earnings from state and local government has been stable. At the state level, earnings from both trade and government have been stable throughout the period.

Average earnings per job (adjusted for inflation) for Barren County and Kentucky are shown in Chart 3D. In Kentucky, average earnings per job reached a high of \$20,121 per person in 1978. Since then, average earnings per job declined and in 1987 were \$18,636 per person. In Barren County, average earnings increased slightly over the period to a level of \$15,451 in 1987, which was well below the Kentucky average.

Employment

Employment is considered any activity for which one receives financial remuneration in the form of wages or profits. Total employment in Barren County increased substantially during the data period. In 1969, total employment stood at 13,886 people. By 1987, that figure had increased to 19,499.

The unemployment rate, often used as an indicator of economic well-being, is the ratio of unemployed to the total civilian labor force. Unemployment is described as a condition of being out of work while actively seeking employment within the last thirty days. The civilian labor force is described as the proportion of population age 16 or older employed or actively seeking employment. Annual unemployment rates for Kentucky and Barren County are presented in Chart 4B. Unemployment rates in Barren County have generally paralleled those of the state. In 1987, the unemployment rate for Barren County was 9.3 percent compared to 8.8 percent for the state.

Another employment concept includes the discouraged worker. Discouraged workers are persons who want jobs but made no attempt to find work in the last thirty days because they believe they could not find it. These individuals are not included when calculating unemployment rates. The Cabinet for Human Resources does not estimate discouraged workers by county. preliminary research by the Cabinet indicates the that inclusion of discouraged workers in the civilian labor force estimate would increase the unemployment rate by approximately four percent for the state. This figure would vary by county depending on the labor market in the county or within commuting distance.

Employment in the goods-producing industries is illustrated in Chart 4C. The percent of total employment in manufacturing increased slightly from 20.6 percent in 1969 to 23.4 percent in 1987. Farming employment as a percent of total has declined from 26.2 percent in 1969 to 15.8 percent in 1987. Mining employment has been minimal.

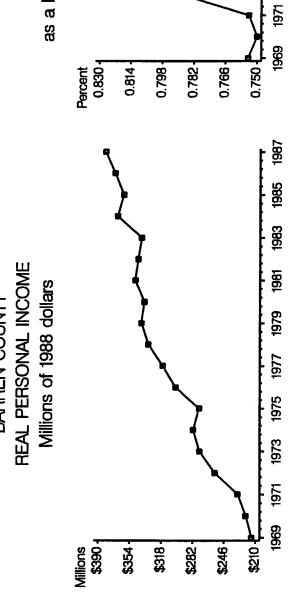
Employment in the non-goods-producing industries is presented in Chart 4D. Similar to the state trend, the percent of employment in the service sector increased over the period. The percent employed in the trade and state and local government sector remained stable. Kentucky employment in the trade sector has shown substantial increases, while the employment share of state and local government remained stable.

Population

The census conducted each decade counts the actual population in an area. Population is then estimated through intervening years. The demographic composition of this population growth has important implications for the future demand for goods and services, and ultimately, the economic structure of Barren County.

The Barren County population grew from 28,600 in 1969 to 34,400 in 1987 (Chart 5A). Barren County's growth rates for the age group five and under have generally paralleled the state's. It was estimated that in 1986, 7.6 percent of Barren County's population was under six years of age, compared to 8.6 percent for the state. Conversely, for the same year 18.9 percent of the Barren County population was 60 years of age and over, while 16.5 percent of all Kentucky residents fell in this age group.

REAL PERSONAL INCOME BARREN COUNTY CHART 1A



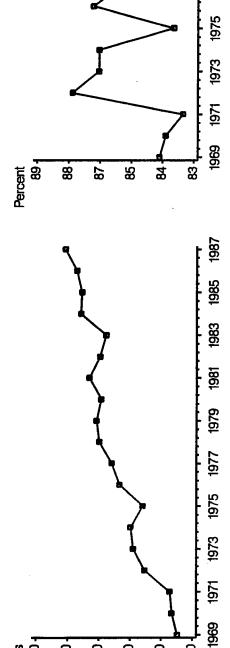
PER CAPITA PERSONAL INCOME in Constant 1988 Dollars BARREN COUNTY CHART 1C

\$12,000 +

Dollars

\$11,000

\$10,000



000'6\$

\$8,000

\$7,000

PERSONAL INCOME BARREN COUNTY CHART 1B

as a Percent of Kentucky Personal Income



1987

1985

1983

1981

1979

1977

1975

1973

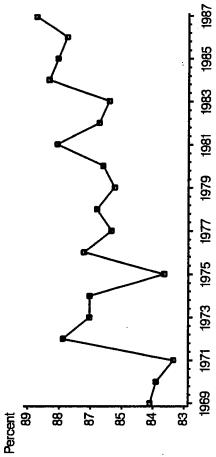


CHART 2A
BARREN COUNTY
REAL TOTAL EARNINGS
Millions of 1988 dollars

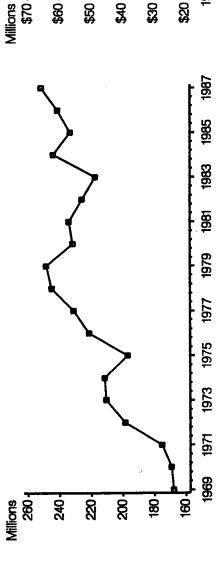


CHART 2B
BARREN COUNTY
TRANSFER PAYMENTS and INCOME FROM PROPERTY
Millions of 1988 Dollars

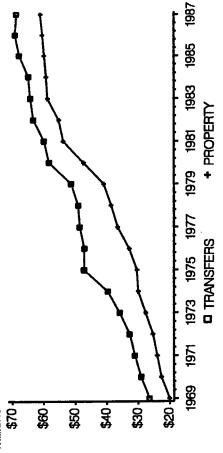
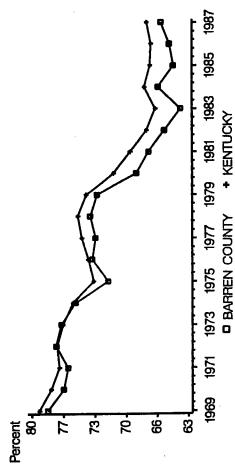


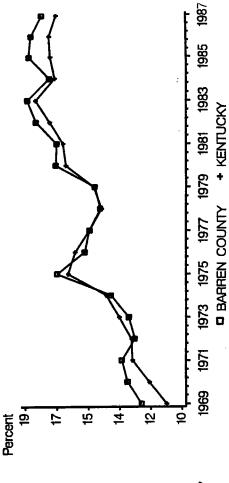
CHART 2D
BARREN COUNTY
TRANSFER PAYMENTS
as a Percent of Personal Income

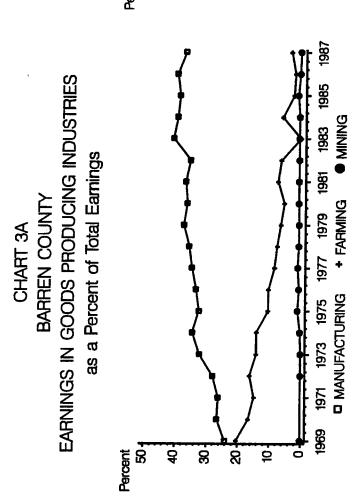
as a Percent of Personal Income

BARREN COUNTY TOTAL EARNINGS

CHART 2C







BARREN COUNTY
EARNINGS in GOODS PRODUCING INDUSTRIES
as a Percent of Kentucky Industries

3.00-1

2.40

86.

8

0.60

0.00

CHART 3C

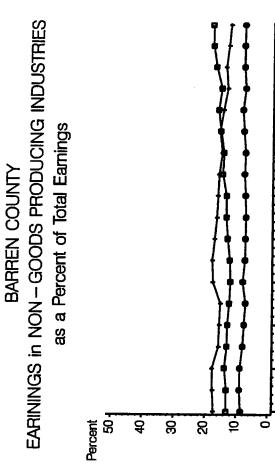


CHART 3B

CHART 3D
BARREN COUNTY
AVERAGE EARNINGS PER JOB
in Constant 1988 Dollars

1987

1985

1983

1881

1979

1975

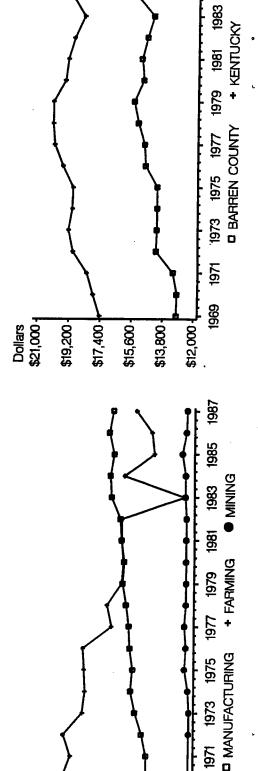
1973

1971

a SERVICES

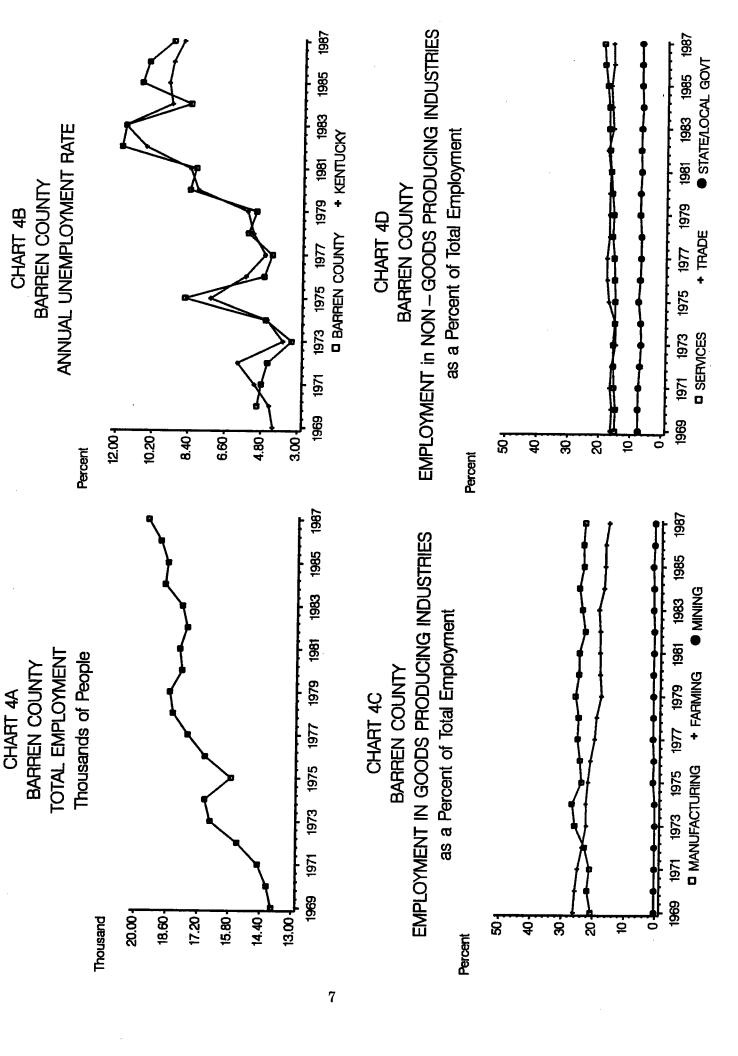
1977 1 + TRADE

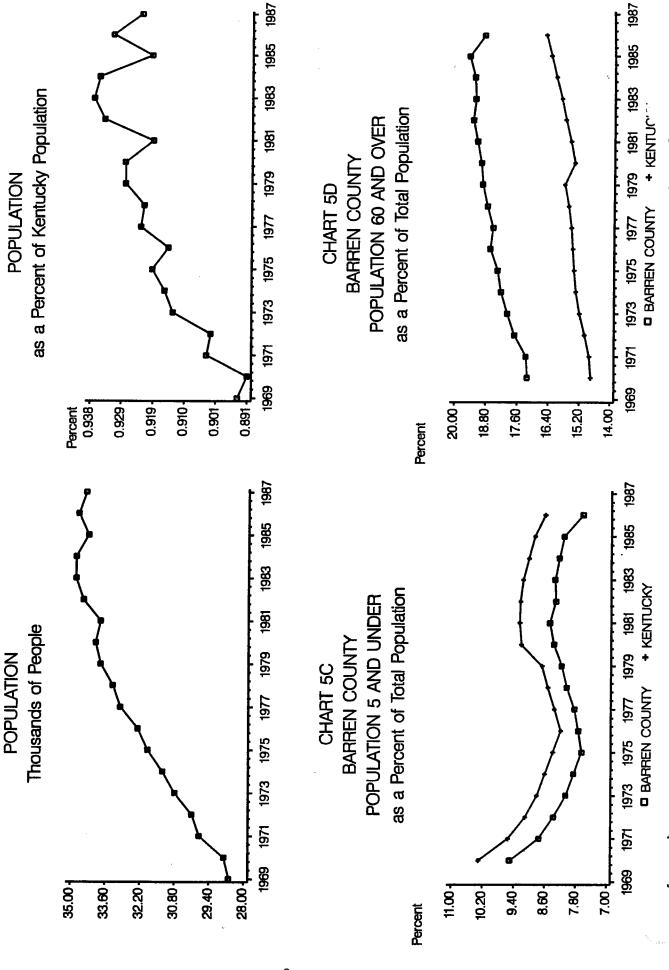
■ STATE/LOCAL GOVT



1987

1985





BARREN COUNTY

CHART 5A

CHART 5B

PERSONAL INCOME In Constant 1988 Dollars

| Year | County Personal Income (M\$) | Percent of Kentucky (%) | Per Capita Personal Income (\$) | Percent of Kentucky (%) |
|------|---------------------------------------|----------------------------------|--|----------------------------------|
| 1969 | 214 | 0.75 | 7,491 | 84.3 |
| 1970 | 221 | 0.75 | 7,664 | 84.1 |
| 1971 | 230 | 0.75 | 7,722 | 83.4 |
| 1972 | 257 | 0.79 | 8,542 | 87.7 |
| 1973 | 274 | 0.79 | 8,898 | 86.7 |
| 1974 | 281 | 0.79 | 8,979 | 86.6 |
| 1975 | 275 | 0.77 | 8,599 | 83.8 |
| 1976 | 301 | 0.80 | 9,326 | 86.9 |
| 1977 | 316 | 0.79 | 9,590 | 85.8 |
| 1978 | 333 | 0.80 | 9,991 | 86.4 |
| 1979 | 341 | 0.80 | 10,076 | 85.7 |
| 1980 | 337 | 0.80 | 9,934 | 86.1 |
| 1981 | 348 | 0.81 | 10,302 | 87.9 |
| 1982 | 344 | 0.81 | 9,970 | 86.3 |
| 1983 | 341 | 0.81 | 9,777 | 85.9 |
| 1984 | 368 | 0.83 | 10,575 | 88.2 |
| 1985 | 361 | 0.81 | 10,542 | 87.9 |
| 1986 | 371 | 0.81 | 10,709 | 87.5 |
| 1987 | 382 | 0.82 | 11,081 | 88.7 |

COMPONENTS OF PERSONAL INCOME In Constant 1988 Dollars

| | EARNINGS | | TRA | TRANSFER PAYMENTS | | | INCOME from PROPERTY | | |
|------|-------------------------------|--------|----------|-------------------|-----------------------|----------|----------------------|---------|----------|
| | Percent of Personal Income | | | | cent of nal Income | | | cent of | |
| Year | M\$ | County | Kentucky | M\$ | County | Kentucky | M\$ | County | Kentucky |
| 1969 | 168 | 78.3 | 79.2 | 26 | 12.3 | 10.9 | 20 | 9.4 | |
| 1970 | 169 | 76.6 | 77.9 | 29 | 13.2 | 11.9 | 23 | 10.3 | 10.2 |
| 1971 | 175 | 76.1 | 77.0 | 31 | 13.5 | 12.9 | 24 | 10.4 | 10.1 |
| 1972 | 199 | 77.4 | 77.3 | 33 | 12.7 | 12.9 | 25 | 9.9 | 9.7 |
| 1973 | 211 | 76.8 | 76.6 | 36 | 13.1 | 13.6 | 28 | 10.1 | 9.7 |
| 1974 | 212 | 75.2 | 75.5 | 40 | 14.1 | 14.4 | 30 | 10.7 | 10.1 |
| 1975 | 197 | 71.7 | 73.3 | 47 | 17.2 | 16.5 | 30 | 11.1 | 10.1 |
| 1976 | 221 | 73.5 | 73.9 | 47 | 15.6 | 16.1 | 33 | 10.9 | 10.0 |
| 1977 | 231 | 73.1 | 74.6 | 49 | 15.3 | 15.3 | 37 | 11.5 | 10.1 |
| 1978 | 245 | 73.7 | 75.0 | 49 | 14.7 | 14.6 | 39 | 11.6 | 10.4 |
| 1979 | 249 | 72.9 | 74.1 | 51 | 15.0 | 15.1 | 41 | 12.0 | 10.8 |
| 1980 | 232 | 68.7 | 71.1 | 58 | 17.3 | 16.7 | 47 | 14.0 | 12.2 |
| 1981 | 234 | 67.3 | 69.3 | 60 | 17.2 | 16.8 | 54 | 15.5 | 13.8 |
| 1982 | 226 | 65.6 | 67.5 | 63 | 18.4 | 17.6 | 55 | 16.0 | 14.9 |
| 1983 | 218 | 63.9 | 66.6 | 64 | 18.9 | 18.4 | 59 | 17.3 | 15.1 |
| 1984 | 244 | 66.3 | 67.8 | 65 | 17.6 | 17.3 | 59 | 16.1 | 14.9 |
| 1985 | 233 | 64.7 | 67.2 | 68 | 18.8 | 17.6 | 60 | 16.6 | 15.3 |
| 1986 | 242 | 65.1 | 67.1 | 69 | 18.6 | 17.6 | 60 | 16.3 | |
| 1987 | 252 | 66.0 | 67.5 | 69 | 18.0 | 17.2 | 61 | 16.0 | 15.3 |
| 1701 | 252 | 00.0 | 07.5 | 09 | 10.0 | 11.2 | 91 | TO.0 | 10.5 |

SECTOR EARNINGS as a PERCENT of TOTAL COUNTY EARNINGS and as a PERCENT of KENTUCKY SECTOR EARNINGS

| | MANUF | ACTURING | FAI | RMING | M | INING |
|------|-------|----------|-------|----------|-------|----------|
| YEAR | TOTAL | KENTUCKY | TOTAL | KENTUCKY | TOTAL | KENTUCKY |
| 1969 | 24.1 | 0.77 | 20.4 | 2.65 | 0.1 | 0.03 |
| 1970 | 26.6 | 0.83 | 16.7 | 2.45 | • | • |
| 1971 | 26.2 | 0.84 | 14.8 | 2.29 | • | • |
| 1972 | 28.0 | 0.93 | 16.2 | 2.43 | 0.1 | 0.02 |
| 1973 | 32.2 | 1.06 | 14.2 | 2.06 | 0.1 | 0.01 |
| 1974 | 34.5 | 1.14 | 14.1 | 2.01 | 0.3 | 0.04 |
| 1975 | 32.4 | 1.10 | 10.5 | 2.03 | 1.1 | 0.11 |
| 1976 | 33.4 | 1.16 | 10.4 | 2.05 | 0.7 | 0.08 |
| 1977 | 34.7 | 1.18 | 8.5 | 1.51 | 1.1 | 0.11 |
| 1978 | 35.6 | 1.23 | 7.6 | 1.60 | 0.8 | 0.08 |
| 1979 | 37.4 | 1.30 | 6.5 | 1.31 | 0.7 | 0.08 |
| 1980 | 36.3 | 1.27 | 5.5 | 1.28 | 0.8 | 0.09 |
| 1981 | 36.8 | 1.33 | 7.5 | 1.32 | 0.8 | 0.09 |
| 1982 | 35.3 | 1.35 | 6.5 | 1.32 | 0.7 | 0.08 |
| 1983 | 40.7 | 1.52 | 0.2 | 0.12 | 0.8 | 0.11 |
| 1984 | 39.5 | 1.54 | 6.1 | 1.27 | 0.7 | 0.10 |
| 1985 | 38.7 | 1.47 | 2.5 | 0.70 | 1.2 | 0.17 |
| 1986 | 39.6 | 1.57 | 2.1 | 0.75 | 0.6 | 0.09 |
| 1987 | 36.9 | 1.49 | 3.4 | 1.05 | 0.4 | 0.07 |

| | SERVICES | | T | RADE | STATE and LOCAL GOVERNMENT | |
|--------------|----------|--------------|--------------|----------|----------------------------|----------|
| YEAR | TOTAL | KENTUCKY | TOTAL | KENTUCKY | TOTAL | KENTUCKY |
| 1969 1970 | 13.2 | 0.78 0.77 | 17.2 17.5 | 0.85 | 8.5 8.9 | 0.72 |
| 1971 | 13.7 | 0.81 | 17.7 | 0.87 | 8.8 | 0.71 |
| 1972 | 13.1 | 0.84 | 15.7 | 0.84 | 8.0 | 0.70 |
| 1973 | 12.9 | 0.85 | 15.4 | 0.84 | 7.5 | 0.69 |
| 1974 | 12.3 | 0.83 | 15.2 | 0.84 | 7.2 | 0.68 |
| 1975 | 12.0 | 0.73 | 17.5 | 0.87 | 8.0 | 0.67 |
| 1976 | 12.2 | 0.78 | 17.7 | 0.94 | 7.4 | 0.66 |
| 1977 | 12.9 | 0.84 | 17.0 | 0.93 | 7.3 | 0.66 |
| 1978 | 13.4 | 0.87 | 16.4 | 0.89 | 7.2 | 0.65 |
| 1979 | 13.4 | 0.87 | 16.1 | 0.88 | 7.3 | 0.66 |
| 1980 | 14.7 | 0.87 | 15.8 | 0.87 | 7.7 | 0.65 |
| 1981 | 14.4 | 0.86 | 14.9 | 0.87 | 7.4 | 0.65 |
| 1982 | 15.4 | 0.86 | 15.7 | 0.89 | 8.0 | 0.67 |
| 1983 | 16.2 | 0.84 | 14.6 | 0.80 | 8.4 | 0.67 |
| 1984 | 15.2 | 0.84 | 13.3 | 0.80 | 7.5 | 0.66 |
| 1985 | 16.9 | 0.86 | 13.9 | 0.79 | 8.0 | 0.66 |
| 1986 | 17.9 | 0.87 | 13.0 | 0.76 | 8.0 | 0.66 |
| 1987 | 18.1 | 0.86 | 12.4 | 0.74 | 7.9 | 0.65 |

COUNTY EMPLOYMENT by SECTOR

| | MANUFACTURING | | FARMI | NG | MINING | |
|------|---------------|---------------------|----------------|---------------------|------------|---------------------|
| YEAR | EMPLOYMENT | PERCENT OF TOTAL | EMPLOYMENT | PERCENT OF TOTAL | EMPLOYMENT | PERCENT OF TOTAL |
| 1969 | 2,866 | 20.6 | 3,645 | 26.2 | 43 | 0.3 |
| 1970 | | 21.8 | 3,633 | 25.8 | 43 | 0.3 |
| 1971 | 3,048 | 21.0 | 3,620 | | 35 | 0.2 |
| 1972 | 3,509 | 22.7 | 3,631 | 23.5 | 47 | 0.3 |
| 1973 | 4,323 | 26.0 | 3,701 | 22.2 | 31 | 0.2 |
| 1974 | 4,529 | 26.8 | 3,776 | 22.4 | 50 | 0.3 |
| 1975 | 3,750 | 23.9 | 3,409 | 21.7 | 131 | 0.8 |
| 1976 | 4,118 | 24.4 | 3,538 | 21.0 | 102 | 0.6 |
| 1977 | 4,458 | 25.2 | 3,462 | 19.6 | 162 | 0.9 |
| 1978 | 4,570 | 24.9 | 3,482 | 19.0 | 157 | 0.9 |
| 1979 | 4,804 | 26.0 | 3,258 | 17.6 | 171 | 0.9 |
| 1980 | 4,478 | 25.0 | 3,234 | 18.0 | 187 | 1.0 |
| 1981 | 4,494 | 24.9 | 3,272 | 18.1 | 167 | 0.9 |
| 1982 | 4,083 | 23.0 | 3,224 | 18.2 | 159 | 0.9 |
| 1983 | 4,327 | 24.1 | 3,346 | 18.6 | 207 | 1.2 |
| 1984 | 4,699 | 25.1 | 3,203 | 17.1 | 208 | 1.1 |
| 1985 | 4,405 | 23.7 | 3,127 | 16.8 | 259 | 1.4 |
| 1986 | 4,524 | 23.9 | 3 ,1 73 | 16.8 | 203 | 1.1 |
| 1987 | 4,561 | 23.4 | 3,078 | 15.8 | 186 | 1.0 |

| | SERVICES | | TRADE | | STATE and LOCAL GOVERNMENT | |
|------|------------|---------------------|------------|---------------------|----------------------------|---------------------|
| YEAR | EMPLOYMENT | PERCENT OF TOTAL | EMPLOYMENT | PERCENT OF TOTAL | EMPLOYMENT | PERCENT OF TOTAL |
| 1969 | 2,084 | 15.0 | 2,257 | 16.3 | 1,016 | 7.3 |
| 1970 | 2,087 | 14.8 | 2,256 | 16.0 | 1,051 | 7.5 |
| 1971 | 2,229 | 15.4 | 2,411 | 16.6 | 1,066 | 7.3 |
| 1972 | 2,404 | 15.6 | 2,492 | 16.1 | 1,079 | 7.0 |
| 1973 | 2,611 | 15.7 | 2,480 | 14.9 | 1,111 | 6.7 |
| 1974 | 2,563 | 15.2 | 2,534 | 15.0 | 1,153 | 6.8 |
| 1975 | 2,378 | 15.1 | 2,703 | 17.2 | 1,191 | 7.6 |
| 1976 | 2,594 | 15.4 | 3,005 | 17.8 | 1,199 | 7.1 |
| 1977 | 2,751 | 15.6 | 3,156 | 17.9 | 1,207 | 6.8 |
| 1978 | 2,963 | 16.2 | 3,148 | 17.2 | 1,252 | 6.8 |
| 1979 | 2,932 | 15.9 | 3,191 | 17.3 | 1,338 | 7.2 |
| 1980 | 2,936 | 16.4 | 3,090 | 17.2 | 1,298 | 7.2 |
| 1981 | 3,040 | 16.8 | 3,072 | 17.0 | 1,252 | 6.9 |
| 1982 | 3,059 | 17.3 | 3,148 | 17.8 | 1,269 | 7.2 |
| 1983 | 3,150 | 17.5 | 2,917 | 16.2 | 1,258 | 7.0 |
| 1984 | 3,291 | 17.6 | 3,118 | 16.6 | 1,267 | 6.8 |
| 1985 | 3,388 | 18.2 | 3,187 | 17.1 | 1,315 | 7.1 |
| 1986 | 3,593 | 19.0 | 3,076 | 16.2 | 1,345 | 7.1 |
| 1987 | 3,747 | 19.2 | 3,183 | 16.3 | 1,370 | 7.0 |

EMPLOYMENT STATISTICS

| | | AVERAGE | EARNINGS | UNEMPLOYMENT RATE | |
|------|------------------|-------------------|-------------------|-------------------|----------|
| YEAR | TOTAL EMPLOYMENT | COUNTY | KENTUCKY | COUNTY | KENTUCKY |
| 1969 | 13,886 | \$13,018 | \$17,440 | • | 4.2 |
| 1970 | 14,106 | \$12 , 987 | \$17 , 811 | 5.0 | 4.4 |
| 1971 | 14,508 | \$13,218 | \$18,166 | 4.8 | 5.1 |
| 1972 | 15,441 | \$14,180 | \$18,970 | 4.5 | 6.0 |
| 1973 | 16,639 | \$14,134 | \$19,232 | 3.3 | 3.7 |
| 1974 | 16,884 | \$14,127 | \$19,008 | 4.6 | 4.5 |
| 1975 | 15,714 | \$14,116 | \$18,976 | 8.6 | 7.3 |
| 1976 | 16,880 | \$14,825 | \$19,563 | 4.7 | 5.6 |
| 1977 | 17,660 | \$14,882 | \$20,031 | 4.3 | 4.7 |
| 1978 | 18,324 | \$15,244 | \$20,121 | 5.5 | 5.3 |
| 1979 | 18,474 | \$15,497 | \$20,110 | 5.1 | 5.5 |
| 1980 | 17,938 | \$14,964 | \$19,439 | 8.4 | 8.0 |
| 1981 | 18,044 | \$15,078 | \$19,286 | 8.1 | 8.4 |
| 1982 | 17,728 | \$14,757 | \$18,931 | 11.8 | 10.6 |
| 1983 | 17,953 | \$14,379 | \$18,358 | 11.6 | 11.6 |
| 1984 | 18,733 | \$15,448 | \$19,080 | 8.4 | 9.3 |
| 1985 | 18,609 | \$14,990 | \$18,676 | 10.8 | 9.5 |
| 1986 | 18,936 | \$15,294 | \$18,627 | 10.5 | 9.3 |
| 1987 | 19,499 | \$15,451 | \$18,636 | 9.3 | 8.8 |

POPULATION STATISTICS

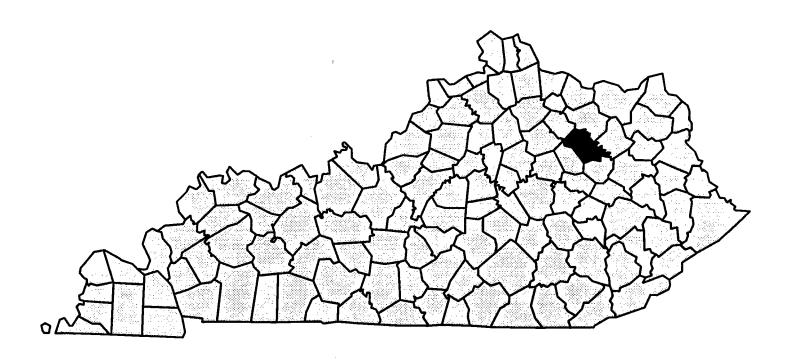
| | | | PERCENT U | NDER AGE 6 | PERCENT | ' AGE 60+ |
|------|-----------------|---------|-----------|------------|---------|-----------|
| YEAR | POPULATION | % OF KY | COUNTY | KENTUCKY | COUNTY | KENTUCKY |
| | | | | | | |
| 1969 | 28,600 | 0.89 | • | • | • | • |
| 1970 | 28 , 800 | 0.89 | 9.5 | 10.3 | 17.2 | 14.8 |
| 1971 | 29,800 | 0.90 | 8.7 | 9.6 | 17.3 | 14.8 |
| 1972 | 30,100 | 0.90 | 8.4 | 9.1 | 17.7 | 15.0 |
| 1973 | 30,800 | 0.91 | 8.1 | 8.8 | 18.0 | 15.2 |
| 1974 | 31,300 | 0.92 | 7.9 | | 18.2 | 15.3 |
| 1975 | 31,900 | 0.92 | 7.7 | | 18.4 | |
| 1976 | 32,300 | 0.91 | 7.7 | 8.2 | 18.6 | |
| 1977 | 33,000 | 0.92 | 7.8 | 8.4 | 18.5 | |
| 1978 | 33,300 | 0.92 | 8.0 | 8.5 | 18.8 | |
| 1979 | 33,800 | 0.93 | 8.2 | 8.7 | 18.9 | |
| 1980 | 34,000 | 0.93 | 8.4 | 9.2 | 19.0 | |
| 1981 | 33,800 | 0.92 | 8.5 | 9.3 | 19.1 | 15.5 |
| 1982 | 34,500 | 0.93 | 8.3 | 9.2 | 19.3 | |
| 1983 | 34,800 | 0.94 | 8.4 | 9.2 | 19.2 | |
| 1984 | 34,800 | 0.94 | 8.2 | 9.0 | 19.3 | |
| 1985 | 34,300 | 0.92 | 8.1 | 8.9 | 19.4 | |
| 1986 | 34,700 | 0.93 | 7.6 | 8.6 | 18.9 | 16.5 |
| | | | 7.0 | 0.0 | 10.9 | 10.5 |
| 1987 | 34,400 | 0.92 | • | • | • | • |

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ECONOMIC TRENDS IN KENTUCKY COUNTIES 1969-1987

BATH COUNTY



Prepared by Virginia Wilson Donna A. Cantrell

RESEARCH MEMORANDUM 438 Legislative Research Commission Frankfort, Kentucky February, 1990

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KY 65 L3rm No.438

ECONOMIC TRENDS IN KENTUCKY COUNTIES 1969-1987

BATH COUNTY

Prepared by Virginia Wilson Donna A. Cantrell

RESEARCH MEMORANDUM 438 Legislative Research Commission Frankfort, Kentucky February, 1990

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FOREWORD

This publication is one of a set of 120, highlighting economic trends in each county in Kentucky from 1969-1987. This effort is part of the ongoing activities sponsored by the Legislative Research Commission to provide a long-term perspective on issues for decision makers. The economies of individual counties do not always parallel overall state trends. This set of publications is an attempt to look at the economic trends in each county over time and to point out where the economies of individual counties may be performing differently from the economy of the state as a whole.

This publication was prepared by Virginia Wilson and Donna Cantrell. Susan Dance assisted in production of the manuscript and Charles Bush edited the report. The assistance of Carol Straus from the Center for Business and Economic Research at the University of Kentucky in deciphering data is gratefully acknowledged.

Vic Hellard, Jr. Director

The Capitol Frankfort February, 1990

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SUMMARY

The Bath County economy, as measured by personal income, grew moderately from 1969 to 1987. However, Bath County decreased its share of the Kentucky economy. This indicates the county economy did not grow as fast as the state economy.

The most prominent economic trend in Bath County was the decline in earnings from the farm sector. Farm employment also declined, but to a much lesser degree, indicating a decline in average earnings in this sector.

While Bath County experienced some economic growth, it came primarily from increases in the non-goods-producing industries. Both the state and local government and service sectors significantly increased their share of both county earnings and employment. The growth sectors at the state level have been the service and trade sectors.

There is a national and state trend toward declining farm employment. Therefore, the outlook for this sector in Bath County is for continued decline. Future economic growth in the county will most likely be dependent on other sectors of the economy.

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INTRODUCTION

This is one of a series of reports called <u>Economic Trends in Kentucky Counties</u>. The purpose of this series is to describe the economic structure of Kentucky counties and to assess their economic performance relative to their own history and relative to the Kentucky economy. Information on the structure and patterns of change in county economies and an understanding of their relationship to the Kentucky economy can help in making policy decisions that are intended to shape Kentucky's economic future.*

When assessing any economy there are several pertinent questions which may be addressed. The first concerns changes in the absolute size of the economy over time. Here the relevant comparison is between the county economy and its own history. Since most economic variables are given in dollars and since inflation causes the value of a dollar to vary over time, all dollar values in this report are presented in constant 1988 dollars. This allows analysis of real changes over time by controlling for the effects of inflation.

A second question concerns the structure and nature of the county economy. The structure of an economy refers to the relative share contributed by the various segments of the economy, while the nature deals with how this share has changed over time.

A third question concerns the performance of the county economy when compared to the Kentucky economy. For example, if a county has a higher proportion of earnings or employment in a particular sector it would indicate a specialization in that sector. Differences in economic structure may explain variations in relative economic well-being between a county and the state as a whole.

Economic data for counties are usually published after a lag of two years. Therefore, most data in this report cover the period 1969 to 1987. All data for this report was obtained from the Kentucky Economic Information System, an on-line database maintained by the University of Kentucky Center for Business and Economic Development.

There are certain caveats which should be remembered when analyzing data. First, it is a common and useful approach to evaluate the percentage an economic sector contributes to the total economy. However, one must remember that a sector's percentage contribution may decline even when its absolute value is increasing if another sector's contribution is growing at a faster rate. Secondly, when reviewing data in graphical analyses, the scales used to present data should be noted. In this report most graphs are presented with the narrowest scale which will cover all data points. This can accentuate visual patterns over time even when absolute changes are relatively small.

^{*}For an analysis of economic trends in Kentucky, see Virginia Wilson, Patterns of Growth and Decline in the Kentucky Economy 1969-1988, Research Memorandum 437, Legislative Research Commission, November 1989.

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ECONOMIC TRENDS IN BATH COUNTY

The following analysis includes a brief description of the county economy and is accompanied by graphical illustrations. Data tables are also included at the end of this report. Three principal components of the Bath County economy are analyzed. They are:

- 1. Personal Income
- 2. Earnings
- 3. Employment

Personal Income

Personal income is often used as a measure of the economic activity in an area. Personal income is the sum of all the dollar income received by individuals in an area from any legal source. Personal income data is published by the Bureau of Economic Analysis (BEA) for most major geographic regions, including states, counties, and major cities.

In general, income can be obtained in three ways. First, it can be earned by the work of an individual. This type of income includes wage and salary income and proprietors' earnings. Second, income can be earned by property. This component includes earnings from rents, dividends, and interest. Finally, income can be received as a gift or an entitlement. This type of income constitutes the component of personal income called transfer payments. Included in this component is income from sources such as retirement benefits, unemployment benefits, food stamps, and medical programs such as Medicare and Medicaid.

As can be seen in Chart 1A, the Bath County economy, as measured by personal income, responded strongly to national recessions in 1975 and 1983. It was \$63 million in 1969 and \$88 million in 1987, after adjusting for inflation. Chart 1B shows Bath County total personal income as a percent of Kentucky total personal income. Bath County generally decreased its share of Kentucky personal income.

A similar pattern emerges from an examination of per capita personal income. Per capita personal income is simply the total personal income of an area divided by its population. Per capita personal income is often used as a measure of the economic well-being of the residents of an area. Charts 1C and 1D indicate that Bath County per capita income increased over the time period and stood at \$8,633 per person in 1987. This was 69.1 percent of Kentucky per capita personal income.

A better understanding of the nature of economic activity can be gleaned from an examination of the relative contribution of the components of personal income and how their shares have changed over time. This information is illustrated in Charts 2A-2D. Total earnings increased from \$50 million in 1969 to \$55 million in 1987 (in constant 1988 dollars) and were very volatile,

due to recessionary cycles. Earnings as a percent of personal income declined over time. This trend occurred at the state level as well. In 1987, earnings accounted for 62.6 percent of Bath County's total personal income, which was significantly lower than Kentucky's 67.5 percent share.

Transfer payments contributed \$9 million to total personal income in 1969 and \$21 million in 1987. During the same period, transfer payments contributed a much larger percentage of personal income in Bath County than in Kentucky.

Income from property in Bath County grew at a stable rate through the time period. Income from property totalled \$4 million in 1969 and increased to \$12 million in 1987.

Earnings

Earnings are the component of personal income reflecting payments to individuals in return for labor. Earnings include both wages and salaries and proprietor's income. In 1969, Bath County received only 0.4 percent of total earnings from manufacturing. This percentage increased to 5.8 percent in 1987 (Chart 3A).

The percent of earnings from the farm sector declined substantially through the time period. In 1969, 48.6 percent of earnings were generated in the farm sector. By 1987, this sector's share declined to 17.4 percent.

Earnings from non-goods-producing industries as a percent of total earnings are illustrated in Chart 3B. The percent of earnings from the service sector increased from 9.2 percent in 1969 to 14.8 percent in 1987. Earnings from the state and local government sector increased significantly, from 9.9 percent in 1969 to 19.1 percent in 1987. The trade sector's share of earnings remained stable and was 12.6 percent in 1987. At the state level, the percent of earnings from services increased, while the percent of earnings from trade and state and local government were stable.

Average earnings per job (adjusted for inflation) for Bath County and Kentucky are shown in Chart 3D. In Kentucky, average earnings per job reached a high of \$20,121 per person in 1978. Since then, average earnings per job declined and in 1987 they were \$18,636 per person. In Bath County, average earnings generally declined through the period and they were \$9,817 in 1987.

Employment

Employment is considered any activity for which one receives financial remuneration in the form of wages or profits. Total employment in Bath County increased substantially during the data period. In 1969, total employment stood at 2,888 people. By 1987, that figure had increased to 3,262.

The unemployment rate, often used as an indicator of economic well-being, is the ratio of unemployed to the total civilian labor force.

Unemployment is described as a condition of being out of work while actively seeking employment within the last thirty days. The civilian labor force is described as the proportion of population age 16 or older employed or actively seeking employment. Annual unemployment rates for Kentucky and Bath County are presented in Chart 4B. Unemployment rates in Bath County were above those of the state throughout the period. In 1987, the county unemployment rate was 13.5 percent, compared to 8.8 percent for Kentucky.

Another employment concept includes the discouraged worker. workers are persons who want jobs but made no attempt to find work in the last These individuals thirty days because they believe they could not find it. are not included when calculating official unemployment rates. The Cabinet for Human Resources does not estimate discouraged workers by county. inclusion of the Cabinet the indicates that research by preliminary discouraged workers in the civilian labor force estimate would increase the unemployment rate by approximately four percent for the state. would vary by county depending on the labor market in a county or within commuting distance.

Employment in the goods-producing industries is illustrated in Chart 4C. The percent of total employment in manufacturing increased from 1.0 percent in 1969 to 4.2 percent in 1987. At the state level, manufacturing's share of employment declined. The farm sector was the primary source of county employment. However, employment in this sector declined from 50.0 percent of total employment in 1969 to 40.5 percent in 1987.

Employment in the non-goods-producing industries is presented in Chart 4D. Employment in the trade sector decreased and accounted for 11.3 percent of employment in 1987. The percent of employment in the service sector increased over the period and accounted for 14.4 percent in 1987. The employment share in state and local government increased from 9.1 percent in 1969 to 11.3 percent in 1987. At the state level, employment shares in both the service and trade sectors increased, while the government employment share remained constant.

Population

The census conducted each decade counts the actual population in an area. Population is then statistically estimated during intervening years. The demographic composition of this population growth has important implications for the future demand for goods and services, and ultimately, the economic structure of Bath County.

The Bath County population grew from 9,200 in 1969 to 10,200 in 1987 (Chart 5A). Bath County had a smaller proportion of younger residents and a higher proportion of older residents than the state. It was estimated that in 1986, 8.0 percent of Bath County's population was under six years of age, compared to 8.6 percent for the state. Conversely, for the same year 18.0 percent of the Bath County population was sixty years of age and over, while 16.5 percent of all Kentucky residents fell in this age group.

CHART 1A
BATH COUNTY
REAL PERSONAL INCOME
Millions of 1988 dollars

PERSONAL INCOME

BATH COUNTY

CHART 1B

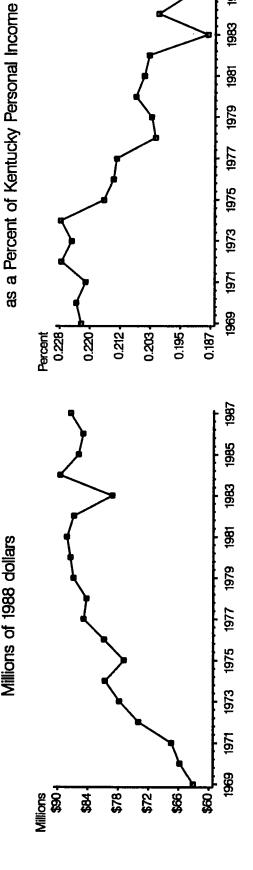


CHART 1D
BATH COUNTY
PER CAPITA PERSONAL INCOME
as a Percent of Kentucky Per Capita Personal Income

PER CAPITA PERSONAL INCOME

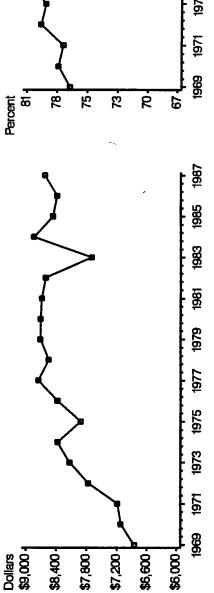
BATH COUNTY

CHART 1C

in Constant 1988 Dollars

1987

1985 2



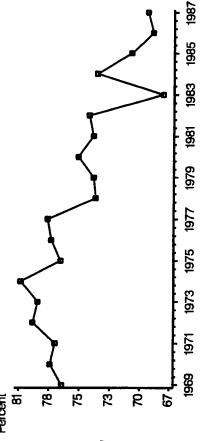


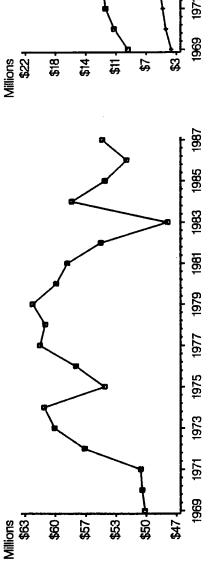
CHART 2A
BATH COUNTY
REAL TOTAL EARNINGS
Millions of 1988 dollars

TRANSFER PAYMENTS and INCOME FROM PROPERTY

BATH COUNTY

CHART 2B

Millions of 1988 Dollars



\$18 \$11 \$7 \$3 \$3 1969 1971 1973 1975 1977 1979 1981 1983 1985 1987 □ TRANSFERS + PROPERTY

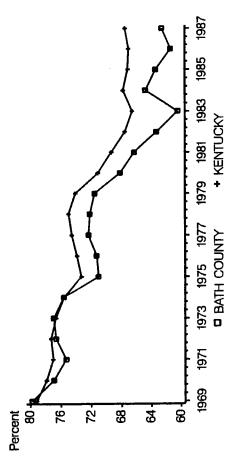
CHART 2D
BATH COUNTY
TRANSFER PAYMENTS
as a Percent of Personal Income

as a Percent of Personal Income

TOTAL EARNINGS

BATH COUNTY

CHART 2C



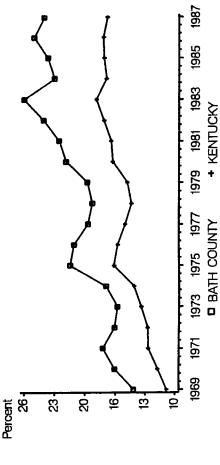


CHART 3A
BATH COUNTY
EARNINGS IN GOODS PRODUCING INDUSTRIES
as a Percent of Total Eamings

EARININGS in NON - GOODS PRODUCING INDUSTRIES

BATH COUNTY

CHART 3B

as a Percent of Total Earnings

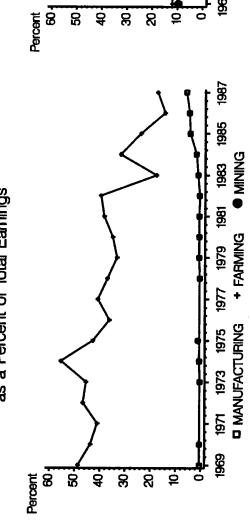
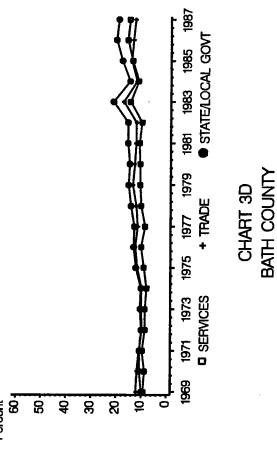
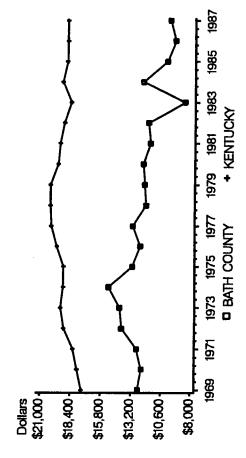


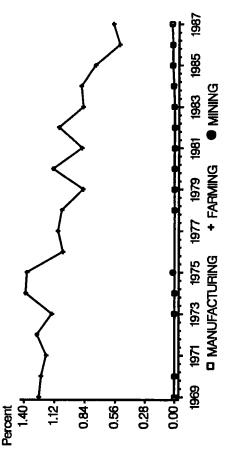
CHART 3C
BATH COUNTY
EARNINGS in GOODS PRODUCING INDUSTRIES
as a Percent of Kentucky Industries

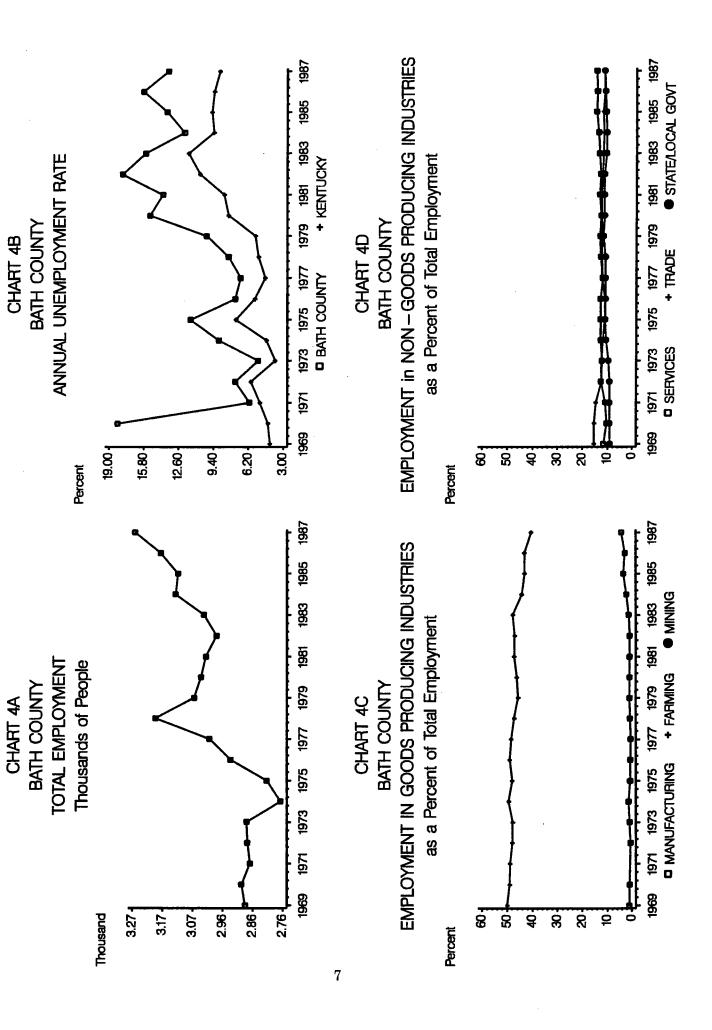
AVERAGE EARNINGS PER JOB

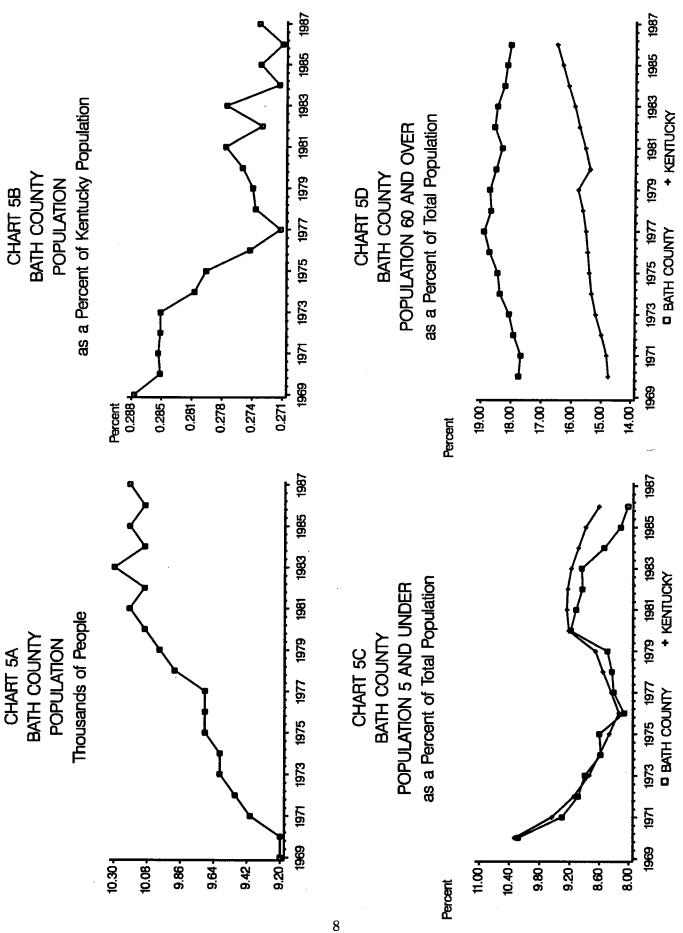
in Constant 1988 Dollars











PERSONAL INCOME In Constant 1988 Dollars

| Year | County Personal Income (M\$) | Percent of Kentucky (%) | Per Capita Personal Income (\$) | Percent of Kentucky (%) |
|------|---------------------------------------|----------------------------------|--|----------------------------------|
| 1969 | 63 | 0.22 | 6,844 | 77.0 |
| 1970 | 66 | 0.22 | 7,119 | 78.1 |
| 1971 | 67 | 0.22 | 7,187 | 77.7 |
| 1972 | 74 | 0.23 | 7,766 | 79.7 |
| 1973 | 78 | 0.22 | 8,138 | 79.2 |
| 1974 | 81 | 0.23 | 8,374 | 80.8 |
| 1975 | 77 | 0.22 | 7,918 | 77.2 |
| 1976 | 81 | 0.21 | 8,375 | 78.0 |
| 1977 | 85 | 0.21 | 8,756 | 78.3 |
| 1978 | 84 | 0.20 | 8,550 | 73.9 |
| 1979 | 87 | 0.20 | 8,715 | 74.1 |
| 1980 | 88 | 0.21 | 8,709 | 75.5 |
| 1981 | 88 | 0.20 | 8,689 | 74.1 |
| 1982 | 87 | 0.20 | 8,609 | 74.5 |
| 1983 | 79 | 0.19 | 7,698 | 67.6 |
| 1984 | 90 | 0.20 | 8,846 | 73.8 |
| 1985 | 86 | 0.19 | 8,468 | 70.6 |
| 1986 | 85 | 0.19 | 8,390 | 68.6 |
| 1987 | 88 | 0.19 | 8,633 | 69.1 |

COMPONENTS OF PERSONAL INCOME In Constant 1988 Dollars

| | | EARNII | NGS | TRAI | NSFER PA | AYMENTS | INCOM | E from 1 | PROPERTY |
|-------|-----|--------|-----------------------|------|----------|-----------------------|--------|----------|-----------------------|
| | | | cent of nal Income | | | cent of nal Income | | | cent of nal Income |
| Year | M\$ | County | Kentucky | М\$ | County | Kentucky | M\$ | County | Kentucky |
| 1969 | 50 | 79.8 | 79.2 | 9 | 14.4 | 10.9 | 4 | 5.8 | 9.9 |
| 1970 | 51 | 76.9 | 77.9 | 11 | 16.5 | 11.9 | 4 | 6.6 | |
| 1971 | 51 | 75.3 | 77.0 | 12 | 17.7 | 12.9 | 5 | 7.0 | 10.1 |
| 1972 | 57 | 76.7 | 77.3 | 12 | 16.5 | 12.9 | 5 | | 9.7 |
| 1973 | 60 | 77.0 | 76.6 | 13 | 16.2 | | 5 | 6.9 | 9.7 |
| 1974 | 61 | 75.6 | 75.5 | 14 | 17.4 | | | 7.0 | |
| 1975 | 55 | 71.0 | 73.3 | 16 | 21.2 | 16.5 | 6 6 | 7.8 | |
| 1976 | 58 | 71.3 | 73.9 | 17 | 20.8 | | 6 | 8.0 | 10.0 |
| 1977 | 61 | 72.4 | 74.6 | 16 | 19.3 | 15.3 | 7 | 8.4 | 10.1 |
| 1978 | 61 | 72.2 | 75.0 | 16 | 18.8 | 14.6 | 8 | 9.0 | |
| 1979 | 62 | 71.6 | 74.1 | 17 | 19.4 | | 8 | 9.1 | |
| 1980 | 60 | 68.2 | 71.1 | 19 | 21.6 | 16.7 | 9 | 10.2 | |
| 1981 | 59 | 66.3 | 69.3 | 20 | 22.3 | 16.8 | 10 | 11.4 | |
| 1982 | 55 | 63.3 | 67.5 | 21 | 24.0 | | 11 | 12.7 | |
| 1983 | 48 | | 66.6 | 21 | 26.0 | | 11 | 13.6 | 15.1 |
| 1.984 | 58 | | 67.8 | 20 | 22.8 | | 11 | 12.5 | |
| | 55 | | 67.2 | 20 | | | 11 | | |
| 986 | | | 67.1 | 21 | 24.9 | | 12 | | |
| 1987 | 55 | | 67.5 | 21 | 23.9 | - | 12 | | 15.3 |
| | | | | | | | | | |

SECTOR EARNINGS as a PERCENT of TOTAL COUNTY EARNINGS and as a PERCENT of KENTUCKY SECTOR EARNINGS

| | MANUF | MANUFACTURING | | RMING | MINING | |
|------|-------|---------------|-------|----------|--------|----------|
| YEAR | TOTAL | KENTUCKY | TOTAL | KENTUCKY | TOTAL | KENTUCKY |
| 1969 | 0.4 | 0.00 | 48.6 | 1.26 | | |
| 1970 | 0.4 | 0.00 | 43.7 | 1.24 | | • |
| 1971 | | • | 41.0 | 1.20 | • | _ |
| 1972 | • | • | 46.7 | 1.28 | _ | • |
| 1973 | 0.3 | 0.00 | 45.5 | 1.15 | _ | • |
| 1974 | 0.6 | 0.00 | 55.5 | 1.39 | • | • |
| 1975 | • | • | 42.8 | 1.38 | 1.0 | 0.02 |
| 1976 | • | • | 36.3 | 1.04 | • | • |
| 1977 | • | • | 40.9 | 1.09 | • | • |
| 1978 | 0.4 | 0.00 | 37.1 | 1.05 | • | • |
| 1979 | 0.6 | 0.00 | 33.3 | 0.86 | • | • |
| 1980 | 0.6 | 0.00 | 35.1 | 1.13 | • | • |
| 1981 | 0.7 | 0.00 | 38.5 | 0.87 | • | • |
| 1982 | 0.5 | 0.00 | 39.8 | 1.08 | • | • |
| 1983 | 1.1 | 0.00 | 17.7 | 0.86 | • | • |
| 1984 | 1.8 | 0.01 | 32.0 | 0.88 | • | • |
| 1985 | 4.4 | 0.02 | 24.0 | 0.74 | | • |
| 1986 | 4.7 | 0.02 | 14.4 | 0.52 | • | • |
| 1987 | 5.8 | 0.03 | 17.4 | 0.58 | • | • |

| SERVICES | | TRADE | | | STATE and LOCAL GOVERNMENT | | |
|----------|-------|----------|-------|----------|-------------------------------|----------|--|
| YEAR | TOTAL | KENTUCKY | TOTAL | KENTUCKY | TOTAL | KENTUCKY | |
| 1969 | 9.2 | 0.11 | 12.0 | 0.12 | 9.9 | 0.17 | |
| 1970 | 8.7 | 0.10 | 11.6 | 0.11 | 10.7 | 0.17 | |
| 1971 | 9.6 | 0.11 | 10.8 | 0.10 | 10.7 | 0.16 | |
| 1972 | 8.4 | 0.10 | 9.7 | 0.10 | 9.9 | 0.16 | |
| 1973 | 8.5 | 0.10 | 10.0 | 0.09 | 10.4 | 0.17 | |
| 1974 | 7.8 | 0.09 | 9.8 | 0.09 | 10.1 | 0.17 | |
| 1975 | 9.0 | 0.09 | 11.6 | 0.10 | 12.2 | 0.17 | |
| 1976 | 10.1 | 0.09 | 12.4 | 0.10 | 13.1 | 0.17 | |
| 1977 | 8.5 | 0.08 | 11.4 | 0.09 | 12.8 | 0.17 | |
| 1978 | 10.1 | 0.09 | 12.1 | 0.09 | 14.1 | 0.17 | |
| 1979 | 10.5 | 0.09 | 13.4 | 0.09 | 15.1 | 0.17 | |
| 1980 | 10.5 | 0.09 | 12.7 | 0.10 | 14.7 | 0.17 | |
| 1981 | 10.8 | 0.08 | 12.2 | 0.09 | 15.4 | 0.17 | |
| 1982 | 9.8 | 0.07 | 12.0 | 0.09 | 15.4 | 0.17 | |
| 1983 | 14.4 | 0.08 | 17.1 | 0.09 | 21.2 | 0.17 | |
| 1984 | 11.2 | 0.08 | 11.9 | 0.09 | 14.6 | 0.17 | |
| 1985 | 13.6 | 0.08 | 14.1 | 0.09 | 17.7 | 0.17 | |
| 1986 | 15.6 | 0.08 | 13.4 | 0.08 | 20.0 | 0.17 | |
| 1987 | 14.8 | 0.07 | 12.6 | 0.08 | 19.1 | 0.17 | |

COUNTY EMPLOYMENT by SECTOR

| | MANUFACT | URING | FARMING | | MINING | | |
|------|------------|---------------------|------------|---------------------|------------|---------------------|--|
| YEAR | EMPLOYMENT | PERCENT OF TOTAL | EMPLOYMENT | PERCENT OF TOTAL | EMPLOYMENT | PERCENT OF TOTAL | |
| 1969 | 30 | 1.0 | 1,444 | 50.0 | • | • | |
| 1970 | 25 | 0.9 | 1,421 | 49.0 | • | • | |
| 1971 | • | • | 1,401 | 48.8 | • | • | |
| 1972 | 15 | 0.5 | 1,382 | 48.0 | • | • | |
| 1973 | 25 | 0.9 | 1,377 | 47.8 | • | • | |
| 1974 | 35 | 1.3 | 1,367 | 49.4 | • | • | |
| 1975 | 18 | 0.6 | 1,350 | 48.0 | 20 | 0.7 | |
| 1976 | 16 | 0.5 | 1,438 | 49.0 | • | • | |
| 1977 | 13 | 0.4 | 1,454 | 48.3 | • | • | |
| 1978 | 22 | 0.7 | 1,504 | 47.1 | • | • | |
| 1979 | 27 | 0.9 | 1,394 | 45.5 | • | • | |
| 1980 | 25 | 0.8 | 1,401 | 46.1 | • | • | |
| 1981 | 26 | 0.9 | 1,422 | 47.1 | • | • | |
| 1982 | 24 | 0.8 | 1,400 | 46.9 | • | • | |
| 1983 | 36 | 1.2 | 1,442 | 47.6 | • | • | |
| 1984 | 66 | 2.1 | 1,378 | 44.1 | • | • | |
| 1985 | 104 | 3.3 | 1,339 | 43.0 | • | • | |
| 1986 | 86 | 2.7 | 1,369 | 43.1 | • | • | |
| 1987 | 137 | 4.2 | 1,322 | 40.5 | • | • | |

| | SERVICES | | TRADE | | STATE and LOCAL GOVERNMENT | |
|------|------------|---------------------|------------|---------------------|----------------------------|---------------------|
| YEAR | EMPLOYMENT | PERCENT OF TOTAL | EMPLOYMENT | PERCENT OF TOTAL | EMPLOYMENT | PERCENT OF TOTAL |
| 1969 | 335 | 11.6 | 443 | 15.3 | 262 | 9.1 |
| 1970 | | 10.3 | 442 | 15.2 | 267 | 9.2 |
| 1971 | 314 | | | 14.6 | 266 | 9.3 |
| 1972 | | 12.6 | 357 | 12.4 | 266 | 9.2 |
| 1973 | 352 | 12.2 | 358 | 12.4 | 281 | 9.7 |
| 1974 | 353 | 12.8 | 330 | 11.9 | 297 | 10.7 |
| 1975 | 361 | 12.8 | 316 | 11.2 | 312 | 11.1 |
| 1976 | 377 | 12.8 | 326 | 11.1 | 320 | 10.9 |
| 1977 | 360 | 12.0 | 370 | 12.3 | 330 | 11.0 |
| 1978 | 407 | 12.8 | 394 | 12.3 | 348 | 10.9 |
| 1979 | 399 | 13.0 | 374 | 12.2 | 358 | 11.7 |
| 1980 | 385 | 12.7 | 377 | 12.4 | 343 | 11.3 |
| 1981 | 399 | 13.2 | 372 | 12.3 | 344 | 11.4 |
| 1982 | 383 | 12.8 | 360 | 12.1 | 339 | 11.4 |
| 1983 | 404 | 13.3 | 358 | 11.8 | 321 | 10.6 |
| 1984 | 426 | 13.6 | 363 | 11.6 | 325 | 10.4 |
| 1985 | 450 | 14.4 | 370 | 11.9 | 333 | 10.7 |
| 1986 | 450 | 14.2 | 356 | 11.2 | 348 | 11.0 |
| 1987 | 469 | 14.4 | 370 | 11.3 | 368 | 11.3 |

EMPLOYMENT STATISTICS

| | | AVERAGE | EARNINGS | UNEMPLO | YMENT RATE |
|------|------------------|----------|----------|---------|------------|
| YEAR | TOTAL EMPLOYMENT | COUNTY | KENTUCKY | COUNTY | KENTUCKY |
| 1969 | 2,888 | \$12,571 | \$17,440 | • | 4.2 |
| 1970 | 2,900 | \$12,253 | \$17,811 | 18.2 | 4.4 |
| 1971 | 2,871 | \$12,677 | \$18,166 | 6.1 | 5.1 |
| 1972 | 2,880 | \$13,991 | \$18,970 | 7.4 | 6.0 |
| 1973 | 2,883 | \$14,159 | \$19,232 | 5.3 | 3.7 |
| 1974 | 2,768 | \$15,104 | \$19,008 | 8.9 | 4.5 |
| 1975 | 2,815 | \$13,077 | \$18,976 | 11.5 | 7.3 |
| 1976 | 2,937 | \$12,361 | \$19,563 | 7.4 | 5.6 |
| 1977 | 3,009 | \$13,025 | \$20,031 | 6.9 | 4.7 |
| 1978 | 3,192 | \$11,869 | \$20,121 | 8.0 | 5.3 |
| 1979 | 3,061 | \$11,996 | \$20,110 | 10.0 | 5.5 |
| 1980 | 3,038 | \$12,114 | \$19,439 | 15.2 | 8.0 |
| 1981 | 3,021 | \$11,512 | \$19,286 | 14.0 | 8.4 |
| 1982 | 2,985 | \$11,687 | \$18,931 | 17.7 | 10.6 |
| 1983 | 3,028 | \$8,522 | \$18,358 | 15.6 | 11.6 |
| 1984 | 3,124 | \$12,132 | \$19,080 | 12.0 | 9.3 |
| 1985 | 3,116 | \$10,089 | \$18,676 | 13.6 | 9.5 |
| 1986 | 3,175 | \$9,352 | \$18,627 | 15.8 | 9.3 |
| 1987 | 3,262 | \$9,817 | \$18,636 | 13.5 | 8.8 |

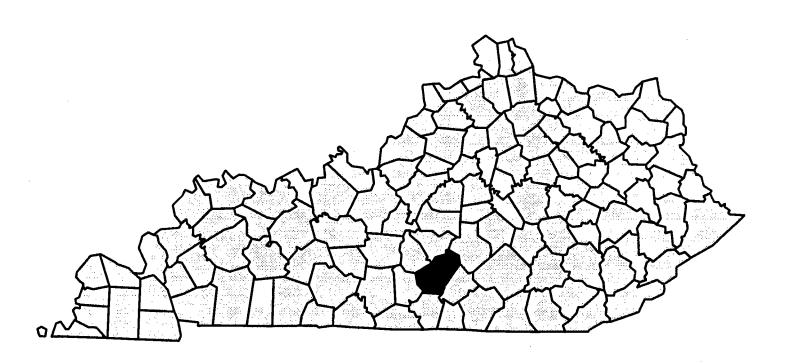
POPULATION STATISTICS

| | | | PERCENT U | NDER AGE 6 | PERCENT | AGE 60+ |
|------|------------|---------|-----------|------------|---------|----------|
| YEAR | POPULATION | % OF KY | COUNTY | KENTUCKY | COUNTY | KENTUCKY |
| 1969 | 9,200 | 0.29 | | | | |
| 1970 | 9,200 | 0.28 | 10.2 | 10.3 | 17.7 | 14.8 |
| 1971 | 9,400 | 0.28 | 9.4 | 9.6 | 17.7 | 14.8 |
| 1972 | 9,500 | 0.28 | 9.0 | 9.1 | 17.9 | 15.0 |
| 1973 | 9,600 | 0.28 | 8.9 | 8.8 | 18.1 | 15.2 |
| 1974 | 9,600 | 0.28 | 8.6 | 8.6 | 18.4 | 15.3 |
| 1975 | 9,700 | 0.28 | 8.6 | 8.4 | 18.5 | 15.4 |
| 1976 | 9,700 | 0.27 | 8.1 | 8.2 | 18.7 | 15.5 |
| 1977 | 9,700 | 0.27 | 8.3 | 8.4 | 18.9 | 15.5 |
| 1978 | 9,900 | 0.27 | 8.3 | 8.5 | 18.7 | 15.6 |
| 1979 | 10,000 | 0.27 | 8.4 | 8.7 | 18.7 | 15.8 |
| 1980 | 10,100 | 0.28 | 9.2 | 9.2 | 18.5 | 15.4 |
| 1981 | 10,200 | 0.28 | 9.1 | 9.3 | 18.3 | 15.5 |
| 1982 | 10,100 | 0.27 | 8.9 | 9.2 | 18.6 | 15.7 |
| 1983 | 10,300 | 0.28 | 9.0 | 9.2 | 18.5 | 15.9 |
| 1984 | 10,100 | 0.27 | 8.5 | 9.0 | 18.2 | 16.1 |
| 1985 | 10,200 | 0.27 | 8.2 | 8.9 | 18.1 | 16.3 |
| 1986 | 10,100 | 0.27 | 8.0 | 8.6 | 18.0 | 16.5 |
| 1987 | 10,200 | 0.27 | • | • | • | • |

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ECONOMIC TRENDS IN KENTUCKY COUNTIES 1969-1987

ADAIR COUNTY



Prepared by Virginia Wilson Donna A. Cantrell

RESEARCH MEMORANDUM 438 Legislative Research Commission Frankfort, Kentucky February, 1990

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FOREWORD

This publication is one of a set of 120, highlighting economic trends in each county in Kentucky from 1969-1987. This effort is part of the ongoing activities sponsored by the Legislative Research Commission to provide a long-term perspective on issues for decision makers. The economies of individual counties do not always parallel overall state trends. This set of publications is an attempt to look at the economic trends in each county over time and to point out where the economies of individual counties may be performing differently from the economy of the state as a whole.

This publication was prepared by Virginia Wilson and Donna Cantrell. Susan Dance assisted in production of the manuscript and Charles Bush edited the report. The assistance of Carol Straus from the Center for Business and Economic Research at the University of Kentucky in deciphering data is gratefully acknowledged.

Vic Hellard, Jr. Director

The Capitol Frankfort February, 1990

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SUMMARY

The Adair County economy experienced healthy growth from 1969 to 1987. The county also increased its share of the Kentucky economy, which indicates that county economic growth rates exceeded state economic growth rates.

Adair County went through a period of economic restructuring from 1969 to 1987. In 1969, agriculture was the predominant economic sector, but earnings in this sector declined significantly through the 1970's. However, this decline was offset by substantial increases in earnings from the manufacturing sector. While manufacturing was the primary source of earnings in 1987, agriculture remained the primary source of employment.

Another area of growth for the county economy was the service sector. The Kentucky economy also had a substantial increase in the service sector throughout this period.

The increase in the manufacturing sector is very different from state trends, where manufacturing's share of the economy has declined. The high concentration and growth in the manufacturing sector has been beneficial for the county economy, because manufacturing is a relatively high wage industry. However, manufacturing industries are very sensitive to changes in consumer demand and are generally more susceptible to economic fluctuations. Consequently, while a high concentration in manufacturing enabled the county to enjoy economic expansion during a period of national economic growth, it may also make the county more susceptible to recessionary contractions.

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INTRODUCTION

This is one of a series of reports called <u>Economic Trends in Kentucky Counties</u>. The purpose of this series is to describe the economic structure of Kentucky counties and to assess their economic performance relative to their own history and relative to the Kentucky economy. Information on the structure and patterns of change in county economies and an understanding of their relationship to the Kentucky economy can help in making policy decisions that are intended to shape Kentucky's economic future.

When assessing any economy there are several pertinent questions which may be addressed. The first concerns changes in the absolute size of the economy over time. Here the relevant comparison is between the county economy and its own history. Since most economic variables are given in dollars and since inflation causes the value of a dollar to vary over time, all dollar values in this report are presented in constant 1988 dollars. This allows analysis of real changes over time by controlling for the effects of inflation.

A second question concerns the structure and nature of the county economy. The structure of an economy refers to the relative share contributed by the various segments of the economy, while the nature deals with how this share has changed over time.

A third question concerns the performance of the county economy when compared to the Kentucky economy. For example, if a county has a higher proportion of earnings or employment in a particular sector it would indicate a specialization in that sector. Differences in economic structure may explain variations in relative economic well-being between a county and the state as a whole.

Economic data for counties are usually published after a lag of two years. Therefore, most data in this report cover the period 1969 to 1987. All data for this report was obtained from the Kentucky Economic Information System, an on-line database maintained by the University of Kentucky Center for Business and Economic Development.

There are certain caveats which should be remembered when analyzing data. First, it is a common and useful approach to evaluate the percentage an economic sector contributes to the total economy. However, one must remember that a sector's percentage contribution may decline even when its absolute value is increasing if another sector's contribution is growing at a faster rate. Secondly, when reviewing data in graphical analyses, the scales used to present data should be noted. In this report most graphs are presented with the narrowest scale which will cover all data points. This can accentuate visual patterns over time even when absolute changes are relatively small.

^{*}For an analysis of economic trends in Kentucky, see Virginia Wilson, Patterns of Growth and Decline in the Kentucky Economy 1969-1988, Research Memorandum 437, Legislative Research Commission, November 1989.

ECONOMIC TRENDS IN ADAIR COUNTY

The following analysis includes a brief description of the county economy and is accompanied by graphical illustrations. Data tables are also included at the end of this report. Three principal components of the Adair County economy are analyzed. They are:

- 1. Personal Income
- 2. Earnings
- 3. Employment

Personal Income

Personal income is often used as a measure of the economic activity in an area. Personal income is the sum of all the dollar income received by individuals in an area from any legal source. Personal income data is published by the Bureau of Economic Analysis (BEA) for most major geographic regions, including states, counties, and major cities.

In general, income can be obtained in three ways. First, it can be earned by the work of an individual. This type of income includes wage and salary income and proprietors' earnings. Second, income can be earned by property. This component includes earnings from rents, dividends, and interest. Finally, income can be received as a gift or an entitlement. This type of income constitutes the component of personal income called transfer payments. Included in this component is income from sources such as retirement benefits, unemployment benefits, food stamps, and medical programs such as Medicare and Medicaid.

As can be seen in Chart 1A, the Adair County economy, as measured by personal income, increased from \$85 million in 1969 to \$155 million in 1987, after adjusting for inflation. Chart 1B shows Adair County total personal income as a percent of Kentucky total personal income. In general, Adair County has increased its share of Kentucky personal income.

A similar pattern emerges from an examination of per capita personal income. Per capita personal income is simply the total personal income of an area divided by its population. Per capita personal income is often used as a measure of the economic well-being of the residents of an area. Charts 1C and 1D indicate that while Adair County per capita income increased over the time period to a level of \$9,775 per person in 1987, Adair County per capita personal income was still only 78.2 percent of Kentucky per capita personal income.

A better understanding of the nature of economic activity can be gleaned from an examination of the relative contribution of the components of personal income and how their share has changed over time. This information is illustrated in Charts 2A-2D. While total earnings increased from \$65 million in 1969 to \$94 million in 1987 (in constant 1988 dollars), earnings were

volatile over the period. Earnings accounted for 60.7 percent of Adair County's total personal income in 1987, which was significantly less than Kentucky's 67.5 percent share.

Transfer payments contributed \$13 million to total personal income in 1969 and \$36 million in 1987. During the same period, transfer payments contributed a larger percentage of personal income in Adair County than in Kentucky. However, the rates of growth in transfer payments were similar.

Income from property in Adair County grew at a stable rate through the time period. Income from property totalled \$6 million in 1969 and increased to \$24 million in 1987.

Earnings

Earnings are the component of personal income reflecting payments to individuals in return for labor. Earnings include both wages and salaries and proprietor's income. Since 1969, Adair County has experienced significant economic restructuring, as indicated in Chart 3A. In 1969, Adair County received 5.2 percent of total earnings from manufacturing. This percentage increased to 21.1 percent in 1987. The county trend toward an increasing concentration in manufacturing is different from that for the state, where the percentage of earnings from manufacturing has shown a steady decline over the period.

Chart 3A also indicates that farming's contribution to total county earnings decreased from 33.5 percent in 1969 to 12.5 percent in 1987. Earnings from mining were minimal throughout the period.

Compared to earnings from goods-producing industries, earnings from non-goods-producing industries (Chart 3B) remained relatively stable. The percent of earnings from services increased from 15.3 percent in 1969 to 20.2 percent in 1987. The trade sector's share of earnings declined from 16.6 percent in 1969 to 13.6 percent in 1987. The percent of earnings from state and local government sectors increased to 15.1 percent in 1987. At the state level, service's share of earnings also increased, while the share attributed to trade and government remained constant.

Average earnings per job (adjusted for inflation) for Adair County and Kentucky are shown in Chart 3D. In Kentucky, average earnings per job reached a high of \$20,121 per person in 1978. Since then, average earnings per job declined and in 1987 they were \$18,636 per person. In Adair County, average earnings decreased over most of the period to a level of \$10,960 in 1987 and they were well below the Kentucky average.

Employment

Employment is considered to be any activity for which one receives financial remuneration in the form of wages or profits. Total employment in Adair County increased substantially during the data period. In 1970, total

employment stood at 4,628 people. By 1987, that figure had increased to 7,154.

The unemployment rate, often used as an indicator of economic well-being, is the ratio of unemployed to the total civilian labor force. Unemployment is described as a condition of being out of work while actively seeking employment within the last thirty days. The civilian labor force is described as the proportion of population age 16 or older employed or actively seeking employment. Annual unemployment rates for Kentucky and Adair County are presented in Chart 4B. Except for the period from 1979 to 1983, unemployment rates in Adair County have paralleled those of the state.

Another employment concept includes the discouraged worker. workers are persons who want jobs but made no attempt to find work in the last thirty days because they believe they could not find it. These individuals are not included when calculating official unemployment rates. The Cabinet for Human Resources does not estimate discouraged workers by county. However, by the Cabinet indicates the preliminary research that inclusion of discouraged workers in the civilian labor force estimate would increase the unemployment rate by approximately four percent for the state. This figure would vary by county depending on the labor market in a county or within commuting distance.

Employment in the goods-producing industries is illustrated in Chart 4C. While the percent of Adair County total employment in agriculture declined, it remained the county's predominant source of employment. The percent of total employment in manufacturing increased significantly over the time period, accounting for the large increases in total employment. Again, both of these trends differ from those of the state, in that Kentucky manufacturing employment has declined and agricultural employment has been relatively low over the period. It is interesting to note that while the percent of total employment in agriculture exceeded that in manufacturing in 1987, the percent of earnings from manufacturing exceeded that from agriculture, reflecting the higher earnings in manufacturing industries.

Employment in the non-goods-producing industries is presented in Chart 4D. The percent of employment in the service sector increased from 14.0 percent in 1969 to 19.1 percent in 1987. The trade sector's share of employment declined over time to 13.4 percent in 1987. Government employment remained constant. Kentucky employment in both the services and trade component of non-goods-producing industries has shown substantial increases.

Population

The census conducted each decade counts the actual population in an area. Population is then statistically estimated during intervening years. The demographic composition of this population growth has important implications for the future demand for goods and services, and ultimately, the economic structure of Breckinridge County.

The Adair County population grew from 13,200 in 1969 to 15,800 in 1987 (Chart 5A). It was estimated that in 1986, 7.3 percent of Adair County's population was under six years of age, compared to 8.6 percent for the state. Conversely, for the same year 20.9 percent of the Adair County population was sixty years of age and over, while 16.5 percent of all Kentucky residents fell in this age group. The higher proportion of older residents may account for the county's greater reliance on transfer payments as a source of personal income.

CHART 1A
ADAIR COUNTY
REAL PERSONAL INCOME
Millions of 1988 dollars

as a Percent of Kentucky Personal Income

ADAIR COUNTY PERSONAL INCOME

CHART 1B

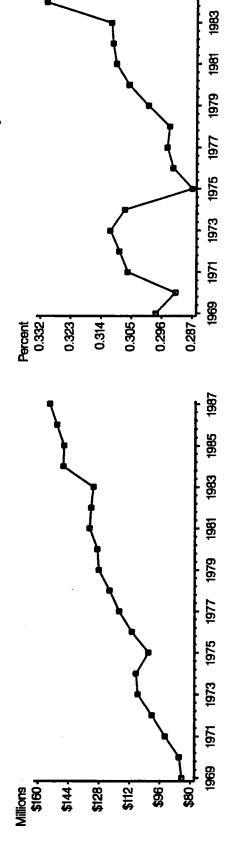


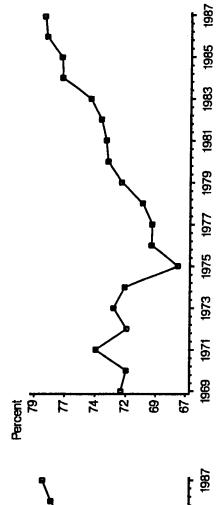
CHART 1D
ADAIR COUNTY
PER CAPITA PERSONAL INCOME
as a Percent of Kentucky Per Capita Personal Income

PER CAPITA PERSONAL INCOME

ADAIR COUNTY

CHART 1C

in Constant 1988 Dollars



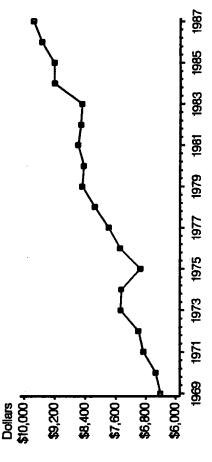


CHART 2A
ADAIR COUNTY
REAL TOTAL EARNINGS
Millions of 1988 dollars

TRANSFER PAYMENTS and INCOME FROM PROPERTY

ADAIR COUNTY

CHART 2B

Millions of 1988 Dollars

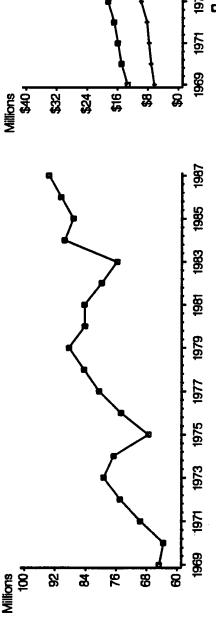
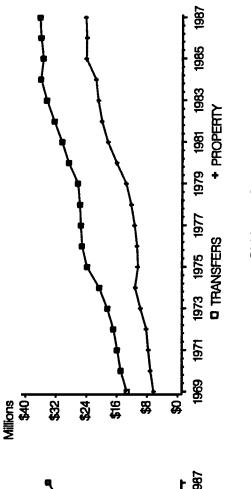
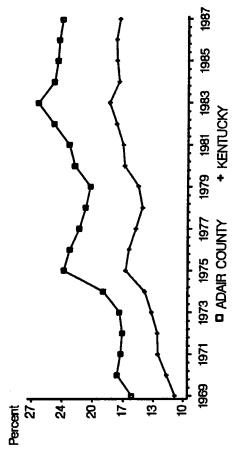
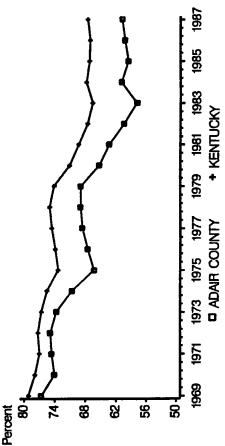


CHART 2C
ADAIR COUNTY
TOTAL EARNINGS
as a Percent of Personal Income









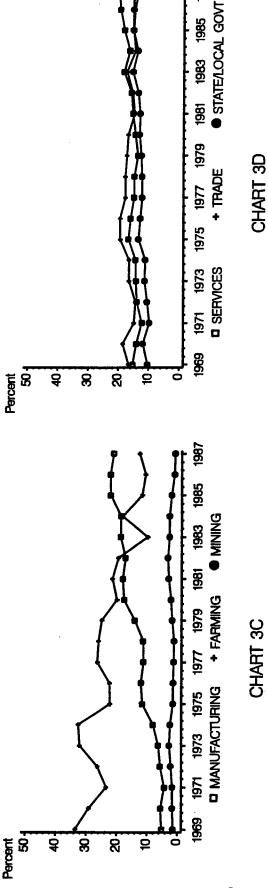
EARNINGS IN GOODS PRODUCING INDUSTRIES as a Percent of Total Earnings ADAIR COUNTY CHART 3A

EARININGS in NON-GOODS PRODUCING INDUSTRIES

ADAIR COUNTY

CHART 3B

as a Percent of Total Earnings



AVERAGE EARNINGS PER JOB in Constant 1988 Dollars ADAIR COUNTY

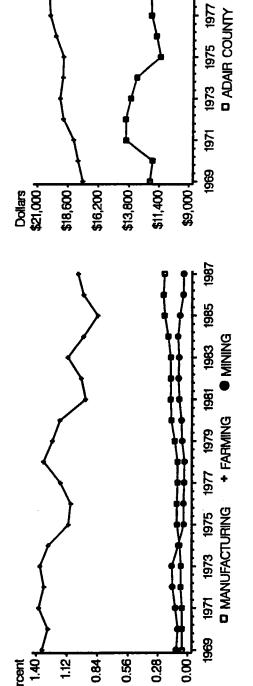
EARNINGS in GOODS PRODUCING INDUSTRIES

ADAIR COUNTY

as a Percent of Kentucky Industries

Percent

1985



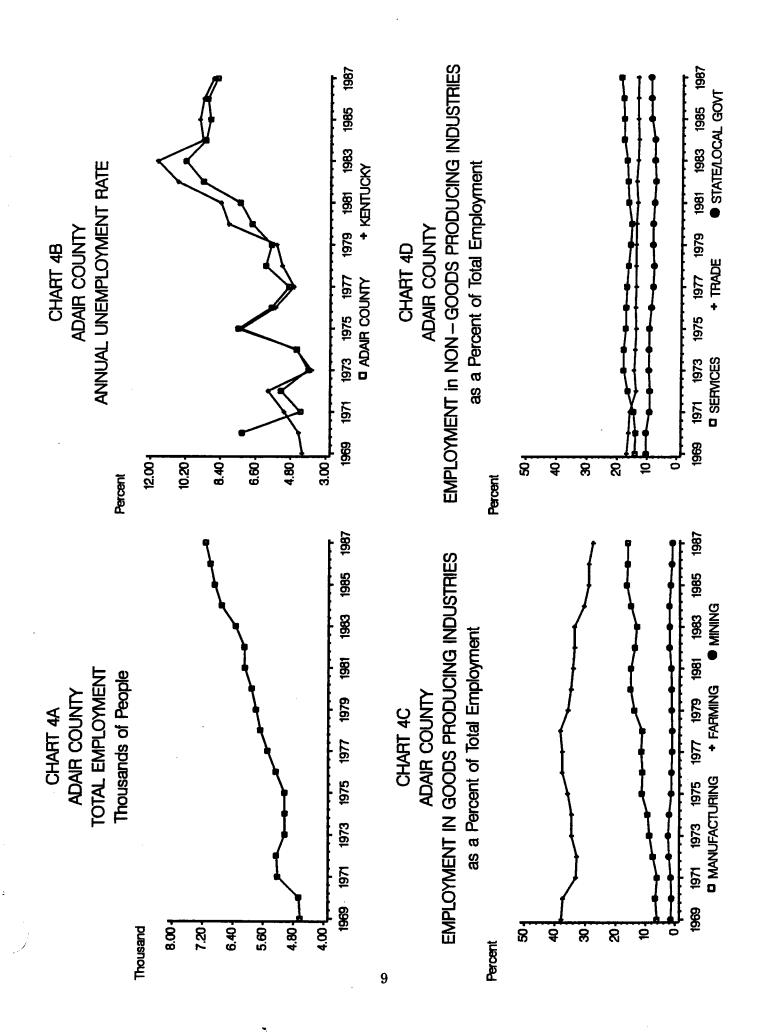
1985

1983

1981

1979

+ KENTUCKY



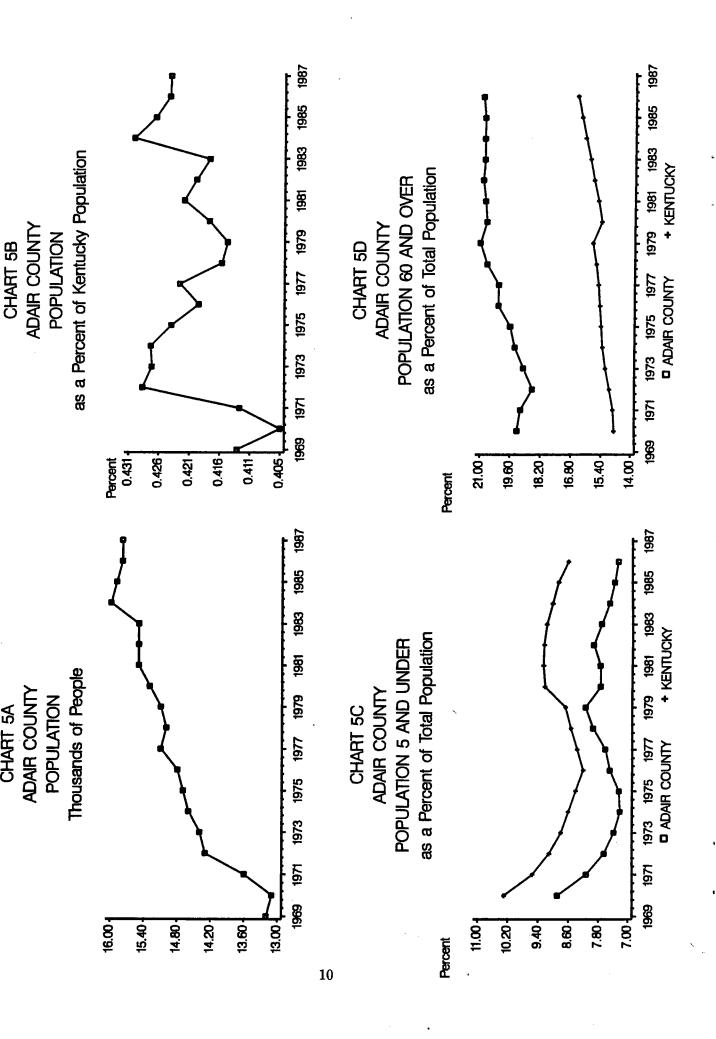


CHART 5A

PERSONAL INCOME In Constant 1988 Dollars

| Year | County Personal Income (M\$) | Percent of Kentucky (%) | Per Capita Personal Income (\$) | Percent of Kentucky (%) |
|------|------------------------------|----------------------------------|--|----------------------------------|
| 1969 | 85 | 0.30 | 6,413 | 72.2 |
| 1970 | 86 | 0.29 | 6,541 | 71.8 |
| 1971 | 93 | 0.31 | 6,863 | 74.1 |
| 1972 | 100 | 0.31 | 6,990 | 71.7 |
| 1973 | 108 | 0.31 | 7,473 | 72.8 |
| 1974 | 109 | 0.31 | 7,450 | 71.9 |
| 1975 | 102 | 0.29 | 6,940 | 67.6 |
| 1976 | 111 | 0.29 | 7,490 | 69.8 |
| 1977 | 118 | 0.29 | 7,793 | 69.7 |
| 1978 | 123 | 0.29 | 8,150 | 70.5 |
| 1979 | 128 | 0.30 | 8,486 | 72.2 |
| 1980 | 129 | 0.31 | 8,446 | 73.2 |
| 1981 | 133 | 0.31 | 8,602 | 73.4 |
| 1982 | 132 | 0.31 | 8,523 | 73.8 |
| 1983 | 131 | 0.31 | 8,494 | 74.6 |
| 1984 | 147 | 0.33 | 9,213 | 76.8 |
| 1985 | 147 | 0.33 | 9,224 | 76.9 |
| 1986 | 151 | 0.33 | 9,550 | 78.0 |
| 1987 | 155 | 0.33 | 9,775 | 78.2 |

COMPONENTS OF PERSONAL INCOME In Constant 1988 Dollars

| | EARNINGS TRANSFER PAYMENTS | | AYMENTS | INCOME from PROPER | | PROPERTY | | | |
|------------|----------------------------|--------|--------------------|----------------------------|--------|----------|-----|-----------------------|----------|
| | | | cent of nal Income | Percent of Personal Income | | | | cent of nal Income | |
| Year | M\$ | County | Kentucky | м\$ | County | Kentucky | M\$ | County | Kentucky |
| 1969 | 65 | 76.7 | 79.2 | 13 | 15.8 | 10.9 | 6 | 7.5 | 9.9 |
| 1970 | 64 | 74.1 | 77.9 | 15 | 17.5 | 11.9 | 7 | 8.4 | 10.2 |
| 1971 | 70 | 74.6 | 77.0 | 16 | 17.1 | 12.9 | 8 | 8.3 | 10.1 |
| 1972 | 75 | 74.9 | 77.3 | 17 | 16.9 | 12.9 | 8 | 8.3 | 9.7 |
| 1973 | 79 | 73.7 | 76.6 | 19 | 17.2 | | 10 | 9.1 | 9.7 |
| 1974 | 77 | 70.6 | 75.5 | 21 | 19.0 | 14.4 | 11 | 10.3 | 10.1 |
| 1975 | 68 | 66.3 | 73.3 | 24 | 23.4 | 16.5 | 11 | 10.3 | 10.1 |
| 1976 | 75 | 67.5 | 73.9 | 25 | 22.8 | 16.1 | 11 | 9.7 | 10.0 |
| 1977 | 81 | 68.6 | 74.6 | 26 | 21.7 | 15.3 | 11 | 9.7 | 10.1 |
| 1978 | 85 | 69.0 | 75.0 | 26 | 21.0 | 14.6 | 12 | 10.0 | 10.4 |
| 1979 | 88 | 68.9 | 74.1 | 26 | 20.5 | 15.1 | 14 | 10.6 | 10.8 |
| 1980 | 84 | 65.3 | 71.1 | 29 | 22.2 | 16.7 | 16 | 12.5 | 12.2 |
| 1981 | 84 | 63.3 | 69.3 | 30 | 22.8 | 16.8 | 18 | 13.8 | 13.8 |
| 1982 | 80 | 60.3 | 67.5 | 32 | 24.5 | 17.6 | 20 | 15.1 | 14.9 |
| 1983 | 76 | 57.8 | 66.6 | 35 | 26.3 | 18.4 | 21 | 16.0 | 15.1 |
| 1984 | 90 | 60.9 | 67.8 | 36 | 24.5 | 17.3 | 22 | 14.7 | 14.9 |
| `5 | 87 | 59.5 | 67.2 | 35 | | 17.6 | 24 | 16.4 | 15.3 |
| <i>)</i> 6 | 91 | 60.1 | 67.1 | 36 | 23.9 | 17.6 | 24 | 15.9 | 15.3 |
| 1987 | 94 | 60.7 | 67.5 | 36 | 23.5 | 17.2 | 24 | 15.7 | 15.3 |

SECTOR EARNINGS as a PERCENT of TOTAL COUNTY EARNINGS and as a PERCENT of KENTUCKY SECTOR EARNINGS

| | MANUFACTURING | | FARMING | | MINING | |
|--|--|--|---|--|--|--|
| YEAR | TOTAL | KENTUCKY | TOTAL | KENTUCKY | TOTAL | KENTUCKY |
| 1969 1970 1971 1972 1973 1974 1975 | 5.2 5.5 4.2 5.6 6.2 8.0 11.6 | 0.05 0.05 0.05 0.06 0.06 0.07 0.10 | 33.5 29.1 23.4 26.3 32.2 32.6 22.2 | 1.35 1.29 1.38 1.33 1.37 1.29 | 1.4 1.6 1.6 2.1 2.6 2.3 | 0.11 0.09 0.11 0.14 0.15 0.09 |
| 1976 1977 1978 1979 1980 1981 1982 1983 1984 1985 | 12.0 11.2 11.3 14.1 17.6 18.0 17.2 18.8 18.6 22.1 | 0.10 0.10 0.10 0.12 0.16 0.16 0.16 0.19 | 22.3 26.3 26.0 24.9 20.0 21.5 19.5 9.8 18.1 11.6 | 1.08 1.18 1.33 1.25 1.18 0.95 0.99 1.11 0.97 0.84 | 1.4 1.2 1.1 1.7 2.1 2.9 3.2 2.6 2.6 1.9 | 0.04 0.03 0.05 0.06 0.08 0.09 0.08 0.09 |
| 1986 1987 | 22.1 21.1 | 0.23 0.22 | 10.6 12.5 | 0.97 1.02 | 0.9 0.8 | 0.04 0.04 |

| SEF | | RVICES T | | RADE | STATE and LOCAL GOVERNMENT | |
|------|-------|----------|-------|----------|----------------------------|----------|
| YEAR | TOTAL | KENTUCKY | TOTAL | KENTUCKY | TOTAL | KENTUCKY |
| 1969 | 15.3 | 0.28 | 16.6 | 0.25 | 10.4 | 0.27 |
| 1970 | | | 18.6 | 0.27 | 11.9 | |
| 1971 | 12.3 | 0.28 | 14.9 | 0.28 | 9.9 | 0.30 |
| 1972 | 13.9 | 0.30 | 14.4 | 0.26 | 10.6 | 0.31 |
| 1973 | 14.2 | 0.27 | 16.5 | 0.26 | 11.4 | 0.30 |
| 1974 | 14.4 | 0.27 | 16.5 | | 11.2 | 0.29 |
| 1975 | 16.7 | 0.26 | 19.5 | 0.25 | 13.5 | 0.29 |
| 1976 | 16.0 | 0.25 | 19.5 | 0.25 | 12.9 | 0.28 |
| 1977 | 14.9 | 0.24 | 17.8 | 0.24 | 12.2 | 0.28 |
| 1978 | 14.8 | 0.24 | 17.8 | 0.24 | 12.3 | 0.27 |
| 1979 | 13.6 | 0.22 | 17.3 | 0.24 | 12.5 | 0.28 |
| 1980 | 14.5 | 0.22 | 16.8 | 0.23 | 13.2 | 0.28 |
| 1981 | 15.2 | 0.23 | 14.7 | 0.21 | 12.9 | 0.28 |
| 1982 | 15.8 | 0.22 | 15.4 | 0.22 | 13.5 | 0.28 |
| 1983 | 18.3 | 0.22 | 17.3 | 0.22 | 15.3 | 0.29 |
| 1984 | 16.4 | 0.23 | 14.5 | 0.22 | 13.7 | 0.31 |
| 1985 | 18.2 | 0.24 | 15.2 | 0.23 | 15.2 | 0.33 |
| 1986 | 19.5 | 0.25 | 14.8 | 0.23 | 15.2 | 0.33 |
| 1987 | 20.2 | 0.25 | 13.6 | 0.21 | 15.1 | 0.33 |

COUNTY EMPLOYMENT by SECTOR

| | MANUFACTURING | | FARMI | RMING MINING | | |
|------|---------------|---------------------|------------|---------------------|------------|---------------------|
| YEAR | EMPLOYMENT | PERCENT OF TOTAL | EMPLOYMENT | PERCENT OF TOTAL | EMPLOYMENT | PERCENT OF TOTAL |
| 1969 | 289 | 6.2 | 1,754 | 37.9 | 69 | 1.5 |
| 1970 | 316 | 6.8 | 1,743 | 37.4 | 59 | 1.3 |
| 1971 | 322 | 6.2 | 1,731 | 33.1 | 77 | 1.5 |
| 1972 | 398 | 7.6 | 1,726 | 32.8 | 111 | 2.1 |
| 1973 | 439 | 8.7 | 1,739 | 34.5 | 120 | 2.4 |
| 1974 | 471 | 9.3 | 1,740 | 34.5 | 104 | 2.1 |
| 1975 | 568 | 11.3 | 1,808 | 35.8 | 70 | 1.4 |
| 1976 | 581 | 11.0 | 1,985 | 37.6 | 66 | 1.3 |
| 1977 | 625 | 11.4 | 2,064 | 37.6 | 59 | 1.1 |
| 1978 | 628 | 11.0 | 2,170 | 38.2 | 58 | 1.0 |
| 1979 | 794 | 13.7 | 2,071 | 35.7 | 71 | 1.2 |
| 1980 | 891 | 15.0 | 2,057 | 34.7 | 77 | 1.3 |
| 1981 | 911 | 14.9 | 2,083 | 34.1 | 89 | 1.5 |
| 1982 | 832 | 13.6 | 2,063 | 33.7 | 131 | 2.1 |
| 1983 | 822 | 12.9 | 2,144 | 33.7 | 133 | 2.1 |
| 1984 | 1,004 | 14.9 | 2,055 | 30.6 | 147 | 2.2 |
| 1985 | 1,133 | 16.4 | 2,006 | 29.0 | 116 | 1.7 |
| 1986 | 1,131 | 16.1 | 2,033 | 28.9 | 91 | 1.3 |
| 1987 | 1,155 | 16.1 | 1,974 | 27.6 | 80 | 1.1 |

| | SERVI | SERVICES | | TRADE | | STATE and LOCAL GOVERNMENT | |
|------|------------|---------------------|-------------|---------------------|------------|-------------------------------|--|
| YEAR | EMPLOYMENT | PERCENT OF TOTAL | EMPLOYMENT | PERCENT OF TOTAL | EMPLOYMENT | PERCENT OF TOTAL | |
| 1969 | 646 | 14.0 | 778 | 16.8 | 475 | 10.3 | |
| 1970 | 640 | 13.7 | 7.75 755 | 16.2 | 482 | 10.3 | |
| 1971 | 757 | 14.5 | 820 | 15.7 | 481 | 9.2 | |
| 1972 | 869 | 16.5 | 721 | 13.7 | 482 | 9.2 | |
| 1973 | 904 | 17.9 | 722 | 14.3 | 479 | 9.5 | |
| 1974 | 905 | 18.0 | 706 | 14.0 | 477 | 9.5 | |
| 1975 | 873 | 17.3 | 693 | 13.7 | 475 | 9.4 | |
| 1976 | 907 | 17.2 | 736 | 13.9 | 463 | 8.8 | |
| 1977 | 928 | 16.9 | 755 | 13.7 | 450 | 8.2 | |
| 1978 | 935 | 16.4 | 792 | 13.9 | 452 | 7.9 | |
| 1979 | 914 | 15.8 | 806 | 13.9 | 485 | 8.4 | |
| 1980 | 914 | 15.4 | 819 | 13.8 | 496 | 8.4 | |
| 1981 | 1,007 | 16.5 | 824 | 13.5 | 486 | 8.0 | |
| 1982 | 1,025 | 16.8 | 847 | 13.8 | 463 | 7.6 | |
| 1983 | 1,088 | 17.1 | 856 | 13.5 | 502 | 7.9 | |
| 1984 | 1,221 | 18.2 | 890 | 13.2 | 534 | 7.9 | |
| 1985 | 1,256 | 18.2 | 934 | 13.5 | 626 | 9.1 | |
| 1986 | 1,294 | 18.4 | 952 | 13.5 | 644 | 9.2 | |
| 1987 | 1,369 | 19.1 | 959 | 13.4 | 663 | 9.3 | |

EMPLOYMENT STATISTICS

| | | AVERAGE | EARNINGS | UNEMPLOYMENT RATE | |
|------|------------------|----------|-------------------|-------------------|----------|
| YEAR | TOTAL EMPLOYMENT | COUNTY | KENTUCKY | COUNTY | KENTUCKY |
| 1969 | 4,628 | \$12,113 | \$17,440 | • | 4.2 |
| 1970 | 4,660 | \$11,896 | \$17 , 811 | 7.3 | 4.4 |
| 1971 | 5,222 | \$14,033 | \$18,166 | 4.3 | 5.1 |
| 1972 | 5 , 257 | \$14,060 | \$18 , 970 | 5.3 | 6.0 |
| 1973 | 5 , 039 | \$13,655 | \$19,232 | 3.9 | 3.7 |
| 1974 | 5,038 | \$13,168 | \$19,008 | 4.5 | 4.5 |
| 1975 | 5,044 | \$11,306 | \$18,976 | 7.5 | 7.3 |
| 1976 | 5,278 | \$11,621 | \$19,563 | 5.8 | 5.6 |
| 1977 | 5,496 | \$12,017 | \$20,031 | 4.9 | 4.7 |
| 1978 | 5,688 | \$12,055 | \$20,121 | 6.1 | 5.3 |
| 1979 | 5,802 | \$12,361 | \$20,110 | 5.8 | 5.5 |
| 1980 | 5,921 | \$11,401 | \$19,439 | 6.8 | 8.0 |
| 1981 | 6,105 | \$11,191 | \$19,286 | 7.4 | 8.4 |
| 1982 | 6,117 | \$10,672 | \$18,931 | 9.3 | 10.6 |
| 1983 | 6,353 | \$9,500 | \$18,358 | 10.2 | 11.6 |
| 1984 | 6,723 | \$11,056 | \$19,080 | 9.2 | 9.3 |
| 1985 | 6,912 | \$10,584 | \$18,676 | 8.9 | 9.5 |
| 1986 | 7,028 | \$10,795 | \$18,627 | 9.1 | 9.3 |
| 1987 | 7,154 | \$10,960 | \$18,636 | 8.6 | 8.8 |

POPULATION STATISTICS

| | | | PERCENT U | NDER AGE 6 | PERCENT | AGE 60+ |
|------|------------|---------|-----------|------------|---------|----------|
| YEAR | POPULATION | % OF KY | COUNTY | KENTUCKY | COUNTY | KENTUCKY |
| 1969 | 13,200 | 0.41 | | | | |
| 1970 | 13,100 | 0.41 | 8.9 | 10.3 | 19.3 | 14.8 |
| 1971 | 13,600 | 0.41 | 8.1 | 9.6 | 19.1 | 14.8 |
| 1972 | 14,300 | 0.43 | 7.6 | 9.1 | 18.6 | |
| 1973 | 14,400 | 0.43 | 7.4 | 8.8 | 19.0 | 15.2 |
| 1974 | 14,600 | 0.43 | 7.2 | 8.6 | 19.4 | |
| 1975 | 14,700 | 0.42 | 7.2 | 8.4 | 19.6 | 15.4 |
| 1976 | 14,800 | 0.42 | 7.5 | 8.2 | 20.1 | 15.5 |
| 1977 | 15,100 | 0.42 | 7.6 | 8.4 | 20.1 | |
| 1978 | 15,000 | 0.42 | 7.9 | 8.5 | 20.7 | |
| 1979 | 15,100 | 0.41 | 8.1 | 8.7 | 21.0 | 15.8 |
| 1980 | 15,300 | 0.42 | 7.7 | 9.2 | 20.7 | 15.4 |
| 1981 | 15,500 | 0.42 | 7.7 | 9.3 | 20.8 | 15.5 |
| 1982 | 15,500 | 0.42 | 7.9 | 9.2 | 20.9 | 15.7 |
| 1983 | 15,500 | 0.42 | 7.7 | 9.2 | 20.8 | 15.9 |
| 1984 | 16,000 | 0.43 | 7.5 | 9.0 | 20.8 | 16.1 |
| 1985 | 15,900 | 0.43 | 7.4 | 8.9 | 20.8 | 16.3 |
| 1986 | 15,800 | 0.42 | 7.3 | 8.6 | 20.9 | 16.5 |
| 1987 | 15,800 | 0.42 | • | • | • | • |

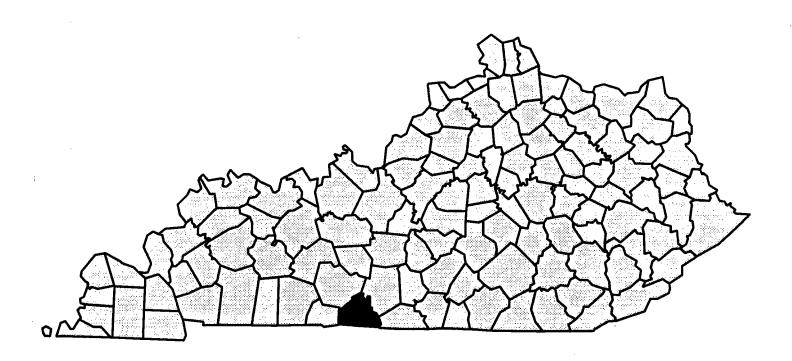
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ECONOMIC TRENDS IN KENTUCKY COUNTIES 1969-1987

ALLEN COUNTY



Prepared by Virginia Wilson Donna A. Cantrell

RESEARCH MEMORANDUM 438 Legislative Research Commission Frankfort, Kentucky February, 1990

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L3rm No.438 1990

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FOREWORD

This publication is one of a set of 120, highlighting economic trends in each county in Kentucky from 1969-1987. This effort is part of the ongoing activities sponsored by the Legislative Research Commission to provide a long-term perspective on issues for decision makers. The economies of individual counties do not always parallel overall state trends. This set of publications is an attempt to look at the economic trends in each county over time and to point out where the economies of individual counties may be performing differently from the economy of the state as a whole.

This publication was prepared by Virginia Wilson and Donna Cantrell. Susan Dance assisted in production of the manuscript and Charles Bush edited the report. The assistance of Carol Straus from the Center for Business and Economic Research at the University of Kentucky in deciphering data is gratefully acknowledged.

Vic Hellard, Jr. Director

The Capitol Frankfort February, 1990

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SUMMARY

The Allen County economy, as measured by personal income, almost doubled from 1969 to 1987. Allen County has also increased its share of Kentucky personal income over this period, indicating that the county economy is growing at a faster rate than the state economy.

While the percentage of income derived from earnings is almost equal to the state, the economic structure underlying this income generation is quite different. The manufacturing sector has been very strong in Allen County and has increased its share of both earnings and employment. However, this sector has been declining at the state level. While the service sector has been the fastest growing sector of the state economy, this sector has not increased its share of either earnings or employment in the Allen County economy. Finally, the trade sector has just maintained its share of employment while experiencing declining earnings. At the state level, employment in the trade sector has increased substantially.

The high concentration and growth in the manufacturing sector has been beneficial for the local economy, in that manufacturing is a relatively high wage industry. However, manufacturing industries are very sensitive to changes in consumer demand and are generally more susceptible to economic volatility. Consequently, while a high concentration in manufacturing enabled the county to enjoy economic expansion during a period of national economic growth, it may also make the county more susceptible to recessionary contractions.

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INTRODUCTION

This is one of a series of reports called <u>Economic Trends in Kentucky Counties</u>. The purpose of this series is to describe the economic structure of Kentucky counties and to assess their economic performance relative to their own history and relative to the Kentucky economy. Information on the structure and patterns of change in county economies and an understanding of their relationship to the Kentucky economy can help in making policy decisions that are intended to shape Kentucky's economic future.

When assessing any economy there are several pertinent questions which may be addressed. The first concerns changes in the absolute size of the economy over time. Here the relevant comparison is between the county economy and its own history. Since most economic variables are given in dollars and since inflation causes the value of a dollar to vary over time, all dollar values in this report are presented in constant 1988 dollars. This allows analysis of real changes over time by controlling for the effects of inflation.

A second question concerns the structure and nature of the county economy. The structure of an economy refers to the relative share contributed by the various segments of the economy, while the nature deals with how this share has changed over time.

A third question concerns the performance of the county economy when compared to the Kentucky economy. For example, if a county has a higher proportion of earnings or employment in a particular sector it would indicate a specialization in that sector. Differences in economic structure may explain variations in relative economic well-being between a county and the state as a whole.

Economic data for counties are usually published after a lag of two years. Therefore, most data in this report cover the period 1969 to 1987. All data for this report was obtained from the Kentucky Economic Information System, an on-line database maintained by the University of Kentucky Center for Business and Economic Development.

There are certain caveats which should be remembered when analyzing data. First, it is a common and useful approach to evaluate the percentage an economic sector contributes to the total economy. However, one must remember that a sector's percentage contribution may decline even when its absolute value is increasing if another sector's contribution is growing at a faster rate. Secondly, when reviewing data in graphical analyses, the scales used to present data should be noted. In this report most graphs are presented with the narrowest scale which will cover all data points. This can accentuate visual patterns over time even when absolute changes are relatively small.

^{*}For an analysis of economic trends in Kentucky, see Virginia Wilson, Patterns of Growth and Decline in the Kentucky Economy 1969-1988, Research Memorandum 437, Legislative Research Commission, November 1989.

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ECONOMIC TRENDS IN ALLEN COUNTY

The following analysis includes a brief description of the county economy and is accompanied by graphical illustrations. Data tables are also included at the end of this report. Three principal components of the Allen County economy are analyzed. They are:

- 1. Personal Income
- 2. Earnings
- 3. Employment

Personal Income

Personal income is often used as a measure of the economic activity in an area. Personal income is the sum of all the dollar income received by individuals in an area from any legal source. Personal income data is published by the Bureau of Economic Analysis (BEA) for most major geographic regions, including states, counties, and major cities.

In general, income can be obtained in three ways. First, it can be earned by the work of an individual. This type of income includes wage and salary income and proprietors' earnings. Second, income can be earned by property. This component includes earnings from rents, dividends, and interest. Finally, income can be received as a gift or an entitlement. This type of income constitutes the component of personal income called transfer payments. Included in this component is income from sources such as retirement benefits, unemployment benefits, food stamps, and medical programs such as Medicare and Medicaid.

As can be seen in Chart 1A, the Allen County economy, as measured by personal income, increased from \$85 million in 1969 to \$160 million in 1987, after adjusting for inflation. Chart 1B shows Allen County total personal income as a percent of Kentucky total personal income. While the pattern has been cyclical, Allen County has generally increased its share of Kentucky personal income.

A similar pattern emerges from an examination of per capita personal income. Per capita personal income is simply the total personal income of an area divided by its population. Per capita personal income is often used as a measure of the economic well-being of the residents of an area. Charts 1C and 1D indicate that while Allen County per capita income increased over the time period to a level of \$10,938 per person in 1987, Allen County per capita personal income was still only 87.5 percent of Kentucky per capita personal income.

A better understanding of the nature of economic activity can be gleaned from an examination of the relative contribution of the components of personal income and how their share has changed over time. This information is illustrated in Charts 2A-2D. While total earnings increased from \$66 million in 1969 to \$109 million in 1987 (in constant 1988 dollars), earnings were volatile over the period. Earnings accounted for 68.3 percent of Allen

County's total personal income in 1987, compared to Kentucky's 67.5 percent share.

Transfer payments contributed \$13 million to total personal income in 1969 and \$30 million in 1987. During the period, transfer payments contributed a larger share to personal income in Allen County than in Kentucky. In 1987, 18.9 percent of personal income was derived from transfer payments, compared to 17.2 percent for the state.

Income from property in Allen County grew at a stable rate through the time period. Income from property totalled \$6 million in 1969 and increased to \$20 million in 1987.

Earnings

Earnings are the component of personal income reflecting payments to individuals in return for labor. Earnings include both wage and salary and proprietor's income. Since 1969, Allen County has experienced strong growth in the percent of earnings from manufacturing (Chart 3A). In 1969, Allen County received 20.9 percent of total earnings from manufacturing, which increased to 31.8 percent in 1987. The county trend toward increasing concentration in manufacturing is different from that of the state, where the percentage of earnings from manufacturing has shown a steady decline over the period.

Chart 3A also indicates that farming's contribution to total county earnings decreased from 19.0 percent in 1969 to 14.7 percent in 1987. Earnings from mining were minimal throughout the period.

The percent of earnings from the service sector remained relatively unchanged (Chart 3B). Again, this trend differs from that of the state, where the percentage of earnings from the services sector increased significantly since the late 1970's. Earnings in both the trade and state and local government sectors declined slightly. These trends are unlike state trends, where the percent of earnings from these sectors was stable throughout this period.

Average earnings per job (adjusted for inflation) for Allen County and Kentucky are shown in Chart 3D. In Kentucky, average earnings per job reached a high of \$20,121 per person in 1978. Since then, average earnings per job declined and in 1987 they were \$18,636 per person. Average earnings per job have been volatile in Allen County. Similar to state patterns, average earnings peaked in 1979 at \$15,828 and declined to a level of \$14,870 in 1987, well below the Kentucky average.

Employment

Employment is considered any activity for which one receives financial remuneration in the form of wages or profits. Total employment in Allen County increased substantially during the data period. In 1969, total employment stood at 4,563 people. By 1987, that figure had increased to 6,127.

The unemployment rate, often used as an indicator of economic well-being, is the ratio of unemployed to the total civilian labor force. Unemployment is described as a condition of being out of work while actively seeking employment within the last thirty days. The civilian labor force is described as the proportion of population age 16 or older employed or actively seeking employment. Annual unemployment rates for Kentucky and Allen County are presented in Chart 4B. While county unemployment patterns have paralleled state patterns, Allen County unemployment rates have generally been more extreme, exhibiting higher highs and lower lows. In 1987, the Allen County unemployment rate equaled the state rate of 8.8 percent.

Another employment concept includes the discouraged worker. Discouraged workers are persons who want jobs but made no attempt to find work in the last thirty days because they believe they could not find it. These individuals are not included when calculating official unemployment rates. The Cabinet for Human Resources does not estimate discouraged workers by county. However, preliminary research by the Cabinet indicates that the inclusion of discouraged workers in the civilian labor force estimate would increase the unemployment rate by approximately four or the state. This figure would vary by county depending on the labor market in a county or within commuting distance.

Employment in the goods-producing industries is illustrated in Chart 4C. The percent of employment in manufacturing increased from 19.7 percent in 1969 to 25.3 percent in 1987. The trend toward an increasing concentration in manufacturing differs from that of Kentucky where manufacturing employment has declined.

The percent of Allen County total employment in agriculture declined from 28.3 percent in 1969 to 24.5 percent in 1987. It is interesting to note that while the percent of total employment in agriculture equaled that in manufacturing in 1987, the percent of earnings from manufacturing exceeded that from agriculture, reflecting the higher earnings in manufacturing industries.

Employment in the non-goods-producing industries is presented in Chart 4D. The percent of employment in services has declined slightly over the period. Trade employment declined slightly from 1975 though Since that time, the sector gained employment share. Conversely, Kentucky employment in the services and trade component of non-goods-producing industries has shown substantial increases. local government employment has been stable in both the county and the state.

Population

The census conducted each decade counts the actual population in an area. Population is then statistically estimated through intervening years. The demographic composition of this population growth has important implications for the future demand for goods and services, and ultimately, the economic structure of Allen County.

The Allen County population grew from 12,600 in 1969 to 14,600 in 1987 (Chart 5A). Allen County's growth rates for the age group five and under have

generally paralleled those of the state. It was estimated that in 1986, 8.3 percent of Allen County's population was under six years of age, compared to 8.6 percent for the state. Conversely, for the same year 21.4 percent of the Allen County population was 60 years of age and over, while 16.5 percent of all Kentucky residents fell in this age group. The higher proportion of older residents may account for the county's greater reliance on transfer payments as a source of personal income.

CHART 1A
ALLEN COUNTY
REAL PERSONAL INCOME
Millions of 1988 dollars

as a Percent of Kentucky Personal Income

PERSONAL INCOME

ALLEN COUNTY

CHART 1B

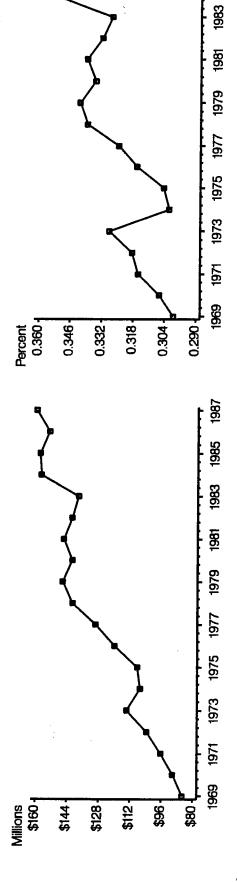
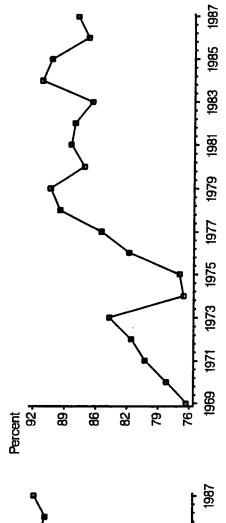


CHART 1D
ALLEN COUNTY
PER CAPITA PERSONAL INCOME
as a Percent of Kentucky Per Capita Personal Income

1987

1985





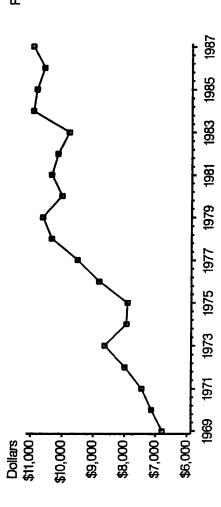


CHART 2A
ALLEN COUNTY
REAL TOTAL EARNINGS
Millions of 1988 dollars

TRANSFER PAYMENTS and INCOME FROM PROPERTY

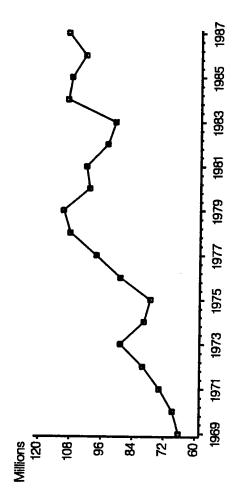
ALLEN COUNTY

CHART 2B

Millions of 1988 Dollars

\$40+

Millions



\$24 \$16 \$8 1987 1973 1975 1977 197 BE 1987 1969 1971 1973 CHART 2D ALLEN COUNTAINSTER PAYM

1987

1985

1983

1981

1979

+ PROPERTY

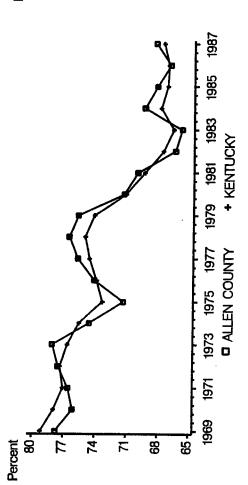
ALLEN COUNTY
TRANSFER PAYMENTS
as a Percent of Personal Income

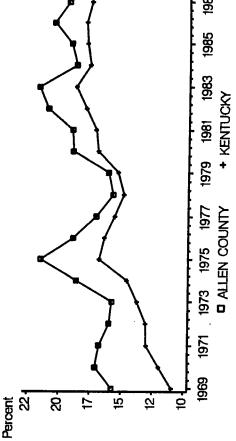
as a Percent of Personal Income

TOTAL EARNINGS

ALLEN COUNTY

CHART 2C



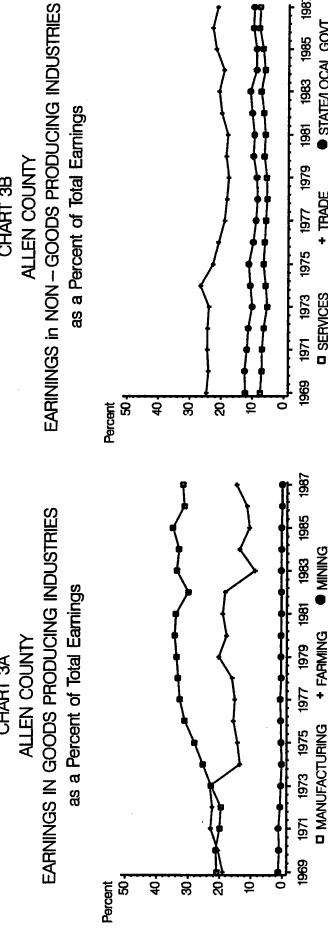


EARNINGS IN GOODS PRODUCING INDUSTRIES ALLEN COUNTY CHART 3A

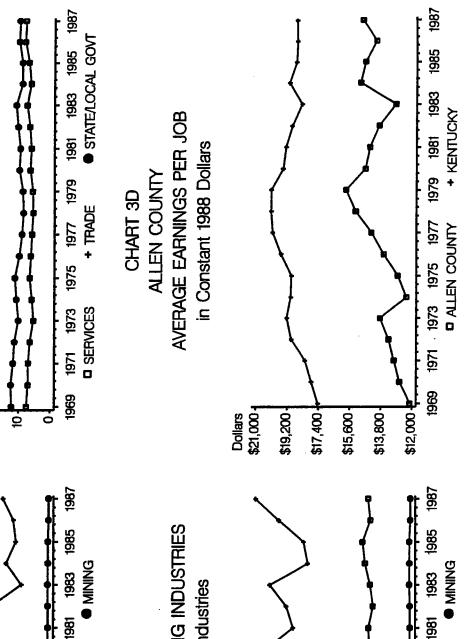
as a Percent of Total Earnings

ALLEN COUNTY

CHART 3B



EARNINGS in GOODS PRODUCING INDUSTRIES as a Percent of Kentucky Industries ALLEN COUNTY CHART 3C



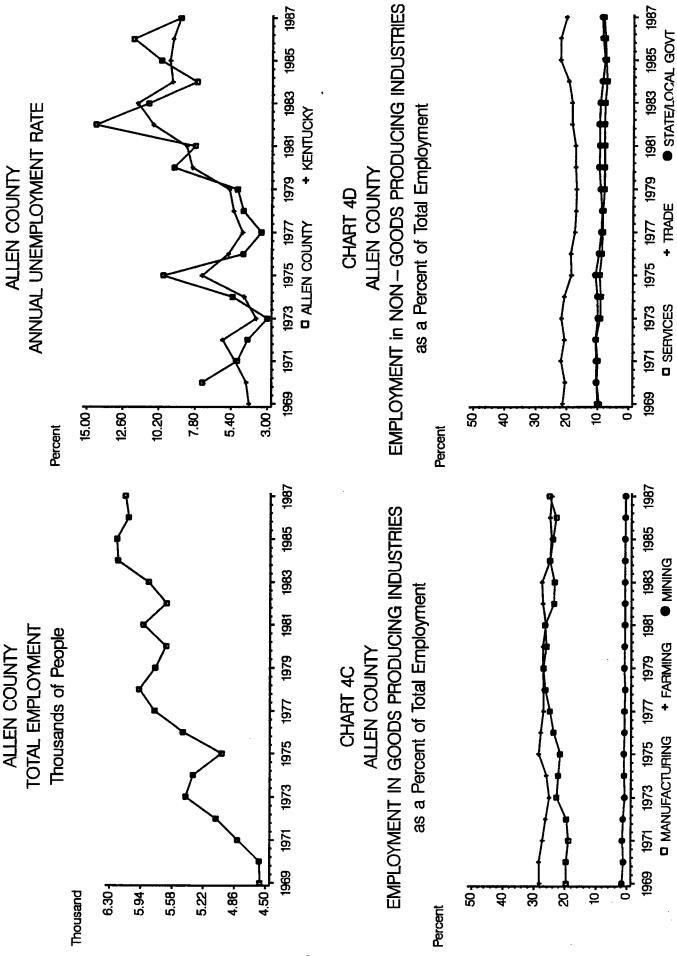


CHART 4B

CHART 4A

1987 1987 1985 1985 1983 1979 1981 1983 as a Percent of Kentucky Population + KENTUCKY as a Percent of Total Population POPULATION 60 AND OVER 1981 1979 ALLEN COUNTY **POPULATION** CHART 5D 1977 1973 1975 1977 **D** ALLEN COUNTY 1975 1973 1971 1971 1969 1969 14.00 0.379 23.00 19.40 17.60 15.80 0.396 0.393 0.386 0.382 2.20 Percent 0.389 Percent 1987 1987 1985 1985 1983 1981 1983 + KENTUCKY as a Percent of Total Population POPULATION 5 AND UNDER 1981 Thousands of People 1979 ALLEN COUNTY 1979 **POPULATION** CHART 5C 1977 1973 1975 1977 **D** ALLEN COUNTY 1975 1973 1971 1971 1969 <u>1969</u> 12.00-7.00 15.00+ 11.00-1 13.80 13.20 12.60 9.40-8.60 7.80 14.40 10.20 Percent

ALLEN COUNTY

ALLEN COUNTY

CHART 5A

CHART 5B

ALLEN COUNTY

PERSONAL INCOME In Constant 1988 Dollars

| Year | County Personal Income (M\$) | Percent of Kentucky (%) | Per Capita Personal Income (\$) | Percent of Kentucky (%) |
|------|---------------------------------------|----------------------------------|--|----------------------------------|
| 1969 | 85 | 0.30 | 6,784 | 76.3 |
| 1970 | 90 | 0.31 | 7,142 | 78.4 |
| 1971 | 96 | 0.32 | 7,459 | 80.6 |
| 1972 | 104 | 0.32 | 7,987 | 82.0 |
| 1973 | 114 | 0.33 | 8,652 | 84.3 |
| 1974 | 107 | 0.30 | 7,943 | 76.6 |
| 1975 | 108 | 0.30 | 7,912 | 77.1 |
| 1976 | 120 | 0.32 | 8,828 | 82.2 |
| 1977 | 130 | 0.32 | 9,510 | 85.1 |
| 1978 | 141 | 0.34 | 10,330 | 89.3 |
| 1979 | 146 | 0.34 | 10,616 | 90.3 |
| 1980 | 142 | 0.33 | 10,016 | 86.8 |
| 1981 | 146 | 0.34 | 10,340 | 88.2 |
| 1982 | 142 | 0.33 | 10,146 | 87.8 |
| 1983 | 138 | 0.33 | 9,794 | 86.0 |
| 1984 | 158 | 0.35 | 10,925 | 91.1 |
| 1985 | 158 | 0.35 | 10,819 | 90.2 |
| 1986 | 153 | 0.34 | 10,579 | 86.4 |
| 1987 | 160 | 0.34 | 10,938 | 87.5 |

COMPONENTS OF PERSONAL INCOME In Constant 1988 Dollars

| | EARNINGS | | TRAI | TRANSFER PAYMENTS | | INCOME from PROPERTY | | | |
|--|---|--|--|--|--|--|---|---|--|
| | Percent of Personal Income | | | | | | cent of nal Income | | |
| Year | M\$ | County | Kentucky | M\$ | County | Kentucky | М\$ | County | Kentucky |
| 1969 1970 1971 1972 1973 1974 1975 1976 1977 1978 1979 1980 1981 1982 1983 | 66 69 74 80 89 80 77 89 98 108 111 101 94 91 | 77.7 76.1 76.6 77.5 78.0 74.5 71.3 74.1 75.7 76.5 75.7 71.3 70.0 66.4 65.8 | 79.2 77.9 77.0 77.3 76.6 75.5 73.3 74.6 75.0 74.1 71.1 69.3 67.5 66.6 | 13 15 16 18 20 23 22 22 23 26 27 29 | 15.8 15.6 18.3 21.0 18.5 16.8 15.5 15.9 18.6 20.5 | 10.9 11.9 12.9 12.9 13.6 14.4 16.5 16.1 15.3 14.6 15.1 16.7 | 6 7 7 7 8 8 9 10 11 12 14 17 | 6.7 7.1 6.9 6.7 6.4 7.2 7.7 7.4 7.5 8.0 8.5 10.2 11.4 | 9.7 9.7 10.1 10.1 10.0 10.1 10.4 10.8 12.2 13.8 14.9 |
| 1984 1985 1986 1987 | 109 108 103 109 | 69.4 68.2 66.9 68.3 | 67.8 67.2 67.1 67.5 | 29 30 31 30 | 21.2 18.3 18.8 20.0 18.9 | 18.4 17.3 17.6 17.6 17.2 | 18 19 21 20 20 | 13.1 12.3 13.1 13.1 12.8 | 15.1 14.9 15.3 15.3 15.3 |

ALLEN COUNTY SECTOR EARNINGS as a PERCENT of TOTAL COUNTY EARNINGS and as a PERCENT of KENTUCKY SECTOR EARNINGS

| | MANUFACTURING | | FAI | FARMING | | MINING | |
|--|--|--|--|--|--|--|--|
| YEAR | TOTAL | KENTUCKY | TOTAL | KENTUCKY | TOTAL | KENTUCKY | |
| 1969 1970 1971 1972 1973 1974 1975 1976 1977 1978 1979 | 20.9 21.2 20.0 19.6 22.7 25.3 28.0 31.1 32.7 33.3 33.7 | 0.20 0.21 0.21 0.20 0.24 0.23 0.28 0.32 0.35 0.37 0.37 | 19.0 20.5 22.9 22.4 23.1 13.6 14.3 15.6 15.2 16.1 20.3 17.9 | 0.75 0.96 1.16 1.03 1.07 0.53 0.80 0.92 0.86 1.10 1.31 1.31 | 1.2 1.0 1.2 0.7 0.4 0.2 0.4 0.5 0.7 0.3 | 0.09 0.06 0.07 0.04 0.03 0.01 0.01 0.02 0.02 0.02 | |
| 1981 1982 1983 1984 1985 1986 1987 | 34.0 30.1 33.7 33.1 35.0 31.4 31.8 | 0.39 0.34 0.37 0.42 0.44 0.37 0.39 | 19.1 18.3 8.9 13.8 10.7 11.4 14.7 | 1.06 1.12 1.26 0.93 0.97 1.19 | 0.3 0.4 0.5 0.4 0.4 0.2 | 0.01 0.01 0.02 0.02 0.02 0.01 | |

| | SERVICES | | TRADE | | STATE and LOCAL GOVERNMENT | |
|------|----------|----------|-------|----------|-------------------------------|----------|
| YEAR | TOTAL | KENTUCKY | TOTAL | KENTUCKY | TOTAL | KENTUCKY |
| 1969 | 7.5 | 0.14 | 24.7 | 0.37 | 12.3 | 0.32 |
| 1970 | 7.0 | 0.13 | 24.0 | 0.37 | 12.5 | 0.32 |
| 1971 | 6.9 | 0.13 | 24.4 | 0.40 | 11.8 | 0.32 |
| 1972 | 6.4 | 0.13 | 24.3 | 0.40 | 11.3 | 0.31 |
| 1973 | 5.3 | 0.11 | 23.9 | 0.41 | 10.1 | 0.30 |
| 1974 | 5.9 | 0.11 | 26.5 | 0.41 | 10.8 | 0.28 |
| 1975 | 6.5 | 0.12 | 22.6 | 0.33 | 11.2 | 0.27 |
| 1976 | 6.1 | 0.12 | 20.9 | 0.33 | 9.9 | 0.26 |
| 1977 | 5.8 | 0.12 | 18.9 | 0.33 | 9.0 | 0.26 |
| 1978 | 5.4 | 0.11 | 18.2 | 0.32 | 8.5 | 0.25 |
| 1979 | 5.5 | 0.11 | 17.7 | 0.31 | 8.7 | 0.25 |
| 1980 | 6.3 | 0.12 | 18.4 | 0.31 | 9.8 | 0.26 |
| 1981 | 6.0 | 0.11 | 18.0 | 0.33 | 9.5 | 0.26 |
| 1982 | 6.5 | 0.11 | 19.9 | 0.34 | 10.2 | 0.26 |
| 1983 | 7.4 | 0.11 | 20.8 | 0.34 | 10.8 | 0.26 |
| 1984 | 6.1 | 0.11 | 19.2 | 0.37 | 8.9 | 0.25 |
| 1985 | 6.8 | 0.11 | 21.8 | 0.41 | 8.9 | 0.24 |
| 1986 | 8.0 | 0.12 | 22.9 | 0.40 | 9.9 | 0.24 |
| 1987 | 7.8 | 0.11 | 21.3 | 0.39 | 9.8 | 0.25 |

ALLEN COUNTY

COUNTY EMPLOYMENT by SECTOR

| MANUFACTURING | | FARMI | FARMING | | MINING | |
|-------------------------|----------------------|--|---|--|---|--|
| EMPLOYMENT | PERCENT OF TOTAL | EMPLOYMENT | PERCENT OF TOTAL | EMPLOYMENT | PERCENT OF TOTAL | |
| 897 895 | 19.7 19.6 | | | 76 52 | 1.7 1.1 | |
| 988 | 19.5 | 1,335 | 26.3 | 64 | 1.5 1.3 0.8 | |
| 1,184 1,079 | 22.2 21.5 | 1,393 1,432 | 26.1 28.6 | 50 52 | 0.9 1.0 | |
| 1,294 1,446 1,580 | 23.7 25.0 26.5 | | | 48 52 39 | 0.9 0.9 0.7 | |
| 1,565 1,478 1,576 | 27.1 26.2 26.6 | 1,542 | 27.3 | 55 50 47 | 1.0 0.9 0.8 | |
| 1,336 1,376 | 23.7 23.5 | 1,546 1,620 | 27.4 27.7 | 44 48 | 0.8 0.8 | |
| 1,498 1,397 | 24.1 22.9 | 1,528 1,528 | 24.5 25.1 | 49 42 | 0.8 0.8 0.7 0.6 | |
| | EMPLOYMENT | PERCENT OF TOTAL 897 895 19.6 908 18.8 988 19.5 1,230 22.7 1,184 22.2 1,079 21.5 1,294 23.7 1,446 25.0 1,580 26.5 1,565 27.1 1,478 26.2 1,576 26.6 1,336 23.7 1,376 23.5 1,556 25.0 1,498 24.1 1,397 22.9 | PERCENT EMPLOYMENT OF TOTAL EMPLOYMENT | PERCENT 897 19.7 1,292 28.3 895 19.6 1,303 28.5 908 18.8 1,318 27.3 988 19.5 1,335 26.3 1,230 22.7 1,365 25.2 1,184 22.2 1,393 26.1 1,079 21.5 1,432 28.6 1,294 23.7 1,526 28.0 1,446 25.0 1,446 25.0 1,565 27.1 1,580 26.5 1,611 27.0 1,565 27.1 1,576 26.6 1,558 26.3 1,336 23.7 1,546 27.4 1,376 23.5 1,620 27.7 1,556 25.0 1,559 25.1 1,498 24.1 1,528 24.5 1,397 22.9 1,528 25.1 | PERCENT PERCENT 897 19.7 1,292 28.3 76 895 19.6 1,303 28.5 52 908 18.8 1,318 27.3 73 988 19.5 1,335 26.3 64 1,230 22.7 1,365 25.2 42 1,184 22.2 1,393 26.1 50 1,079 21.5 1,432 28.6 52 1,294 23.7 1,526 28.0 48 1,446 25.0 1,568 27.1 52 1,580 26.5 1,611 27.0 39 1,565 27.1 1,571 27.2 55 1,478 26.2 1,542 27.3 50 1,576 26.6 1,558 26.3 47 1,336 23.7 1,546 27.4 44 1,376 23.5 1,620 27.7 48 1,498 24.1 1,528 24.5 49 1,397 22.9 1,528 25.1 42 | |

| | SERVICES | | TRADE | | GOVERNMENT | |
|------|------------|---------------------|------------|---------------------|------------|---------------------|
| YEAR | EMPLOYMENT | PERCENT OF TOTAL | EMPLOYMENT | PERCENT OF TOTAL | EMPLOYMENT | PERCENT OF TOTAL |
| 1969 | 461 | 10.1 | 970 | 21.3 | 432 | 9.5 |
| 1970 | 470 | 10.3 | 939 | | 476 | |
| 1971 | 478 | 9.9 | 1,056 | | 507 | |
| 1972 | 536 | 10.6 | 1,053 | | 540 | |
| 1973 | 497 | 9.2 | | | 540 | |
| 1974 | 479 | 9.0 | 1,112 | | 540 | |
| 1975 | 472 | 9.4 | 933 | 18.6 | 541 | |
| 1976 | 478 | 8.8 | 1,027 | 18.8 | 526 | |
| 1977 | 492 | 8.5 | 1,018 | 17.6 | | |
| 1978 | 500 | 8.4 | 1,026 | | 519 | |
| 1979 | 464 | 8.0 | 988 | 17.1 | 531 | |
| 1980 | 453 | 8.0 | 983 | 17.4 | 553 | |
| 1981 | 470 | 7.9 | 1,036 | 17.5 | | |
| 1982 | 454 | 8.0 | 1,048 | 18.6 | 547 | |
| 1983 | 463 | 7.9 | 1,087 | 18.6 | 551 | 9.4 |
| 1984 | 455 | 7.3 | 1,223 | 19.7 | 544 | 8.8 |
| 1985 | 477 | 7.7 | 1,392 | | 494 | 7.9 |
| 1986 | 481 | 7.9 | 1,358 | | 522 | 8.6 |
| 1987 | 510 | 8.3 | 1,246 | 20.3 | 537 | 8.8 |

ALLEN COUNTY

EMPLOYMENT STATISTICS

| | | AVERAGE EARNINGS | | UNEMPLO | YMENT RATE |
|--|---|--|--|--|---|
| YEAR | TOTAL EMPLOYMENT | COUNTY | KENTUCKY | COUNTY | KENTUCKY |
| 1969 1970 1971 1972 1973 1974 1975 1976 1977 1978 1979 1980 1981 | 4,563 4,571 4,824 5,075 5,425 5,340 5,007 5,457 5,786 5,963 5,776 5,651 5,651 5,914 5,648 | \$12,134 \$12,743 \$13,052 \$13,346 \$13,851 \$12,348 \$12,841 \$13,647 \$14,374 \$15,277 \$15,828 \$14,736 \$14,475 \$13,919 | \$17,440 \$17,811 \$18,166 \$18,970 \$19,232 \$19,008 \$18,976 \$19,563 \$20,031 \$20,121 \$20,110 \$19,439 \$19,286 \$18,931 | 7.3 5.0 4.3 3.0 5.3 9.9 4.6 3.4 4.6 5.0 9.2 7.8 | 3.7 4.5 7.3 5.6 4.7 5.3 5.5 8.0 8.4 10.6 |
| 1983 1984 1985 1986 1987 | 5,856 6,212 6,226 6,089 6,127 | \$12,969 \$15,011 \$14,738 \$14,093 \$14,870 | \$18,358 \$19,080 \$18,676 \$18,627 \$18,636 | 10.9 7.7 10.1 11.9 8.8 | 11.6 9.3 9.5 9.3 8.8 |

POPULATION STATISTICS

| | | | PERCENT U | NDER AGE 6 | PERCENT | AGE 60+ |
|------|------------|---------|-----------|------------|---------|----------|
| YEAR | POPULATION | % OF KY | COUNTY | KENTUCKY | COUNTY | KENTUCKY |
| 1969 | 12,600 | 0.39 | • | • | • | • |
| 1970 | 12,600 | 0.39 | 8.6 | 10.3 | 21.1 | 14.8 |
| 1971 | 12,900 | 0.39 | 8.0 | 9.6 | 21.0 | 14.8 |
| 1972 | 13,000 | 0.39 | 7.7 | 9.1 | 21.1 | 15.0 |
| 1973 | 13,100 | 0.39 | 7.4 | 8.8 | 21.4 | 15.2 |
| 1974 | 13,500 | 0.40 | 7.3 | 8.6 | 21.1 | 15.3 |
| 1975 | 13,700 | 0.39 | 7.0 | 8.4 | 21.0 | 15.4 |
| 1976 | 13,600 | 0.39 | 7.4 | 8.2 | 21.5 | 15.5 |
| 1977 | 13,600 | 0.38 | 7.6 | 8.4 | 21.9 | 15.5 |
| 1978 | 13,700 | 0.38 | 7.7 | 8.5 | 22.0 | 15.6 |
| 1979 | 13,800 | 0.38 | 7.9 | 8.7 | 22.3 | 15.8 |
| 1980 | 14,100 | 0.38 | 8.4 | 9.2 | 20.7 | 15.4 |
| 1981 | 14,100 | 0.38 | 8.5 | 9.3 | 20.8 | 15.5 |
| 1982 | 14,000 | 0.38 | 8.5 | 9.2 | 20.9 | 15.7 |
| 1983 | 14,100 | 0.38 | 8.5 | 9.2 | 21.2 | 15.9 |
| 1984 | 14,400 | 0.39 | 8.6 | 9.0 | 21.3 | 16.1 |
| 1985 | 14,600 | 0.39 | 8.4 | 8.9 | 21.2 | 16.3 |
| 1986 | 14,500 | 0.39 | 8.3 | 8.6 | 21.4 | 16.5 |
| 1987 | 14,600 | 0.39 | • | • | • | • |

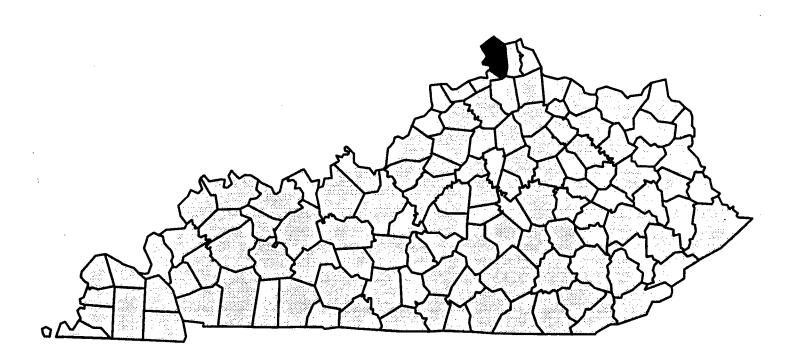
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ECONOMIC TRENDS IN KENTUCKY COUNTIES 1969-1987

BOONE COUNTY



Prepared by Virginia Wilson Donna A. Cantrell

RESEARCH MEMORANDUM 438 Legislative Research Commission Frankfort, Kentucky February, 1990

KY 65 . L3rm No. 438 1990

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FOREWORD

This publication is one of a set of 120, highlighting economic trends in each county in Kentucky from 1969-1987. This effort is part of the ongoing activities sponsored by the Legislative Research Commission to provide a long-term perspective on issues for decision makers. The economies of individual counties do not always parallel overall state trends. This set of publications is an attempt to look at the economic trends in each county over time and to point out where the economies of individual counties may be performing differently from the economy of the state as a whole.

This publication was prepared by Virginia Wilson and Donna Cantrell. Susan Dance assisted in production of the manuscript and Charles Bush edited the report. The assistance of Carol Straus from the Center for Business and Economic Research at the University of Kentucky in deciphering data is gratefully acknowledged.

Vic Hellard, Jr. Director

The Capitol Frankfort February, 1990

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SUMMARY

Boone County experienced significant economic growth from 1969 to 1987. Personal income more than doubled over this period. Boone County also increased its share of Kentucky personal income, indicating that the county economy is growing at a faster rate than the state economy.

Earnings account for a much larger share of personal income in Boone County than in Kentucky. Transfer payments contribute a smaller share to personal income than for the state.

The economic growth was spurred to a large extent by an increase in both the service and trade sectors. While manufacturing was strong through the seventies, this sector's share declined in the 1980's. These trends parallel state economic trends.

Total employment in Boone County grew by 244 percent from 1969 to 1987. However, population grew by only 69 percent. This suggests that Boone County is importing a large portion of its labor, and exporting disposable income.

The manufacturing sector is very sensitive to national economic conditions and is very vulnerable to production cutbacks during low or no growth periods. The service and trade sectors are more resilent during periods of economic stagnation. The growth in the trade and service sectors has helped to create a more diversified economy. This diversification will help to stabilize the county economy during recessionary periods.

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INTRODUCTION

This is one of a series of reports called <u>Economic Trends in Kentucky Counties</u>. The purpose of this series is to describe the economic structure of Kentucky counties and to assess their economic performance relative to their own history and relative to the Kentucky economy. Information on the structure and patterns of change in county economies and an understanding of their relationship to the Kentucky economy can help in making policy decisions that are intended to shape Kentucky's economic future.

When assessing any economy there are several pertinent questions which may be addressed. The first concerns changes in the absolute size of the economy over time. Here the relevant comparison is between the county economy and its own history. Since most economic variables are given in dollars and because inflation causes the value of a dollar to vary over time, all dollar values in this report are presented in constant 1988 dollars. This allows analysis of real changes over time by controlling for the effects of inflation.

A second question concerns the structure and nature of the county economy. The structure of an economy refers to the relative share contributed by the various segments of the economy, while the nature deals with how this share has changed over time.

A third question concerns the performance of the county economy when compared to the Kentucky economy. For example, if a county has a higher proportion of earnings or employment in a sector it would indicate a specialization in that sector. Differences in economic structure may explain variations in relative economic well-being between a county and the state as a whole.

Economic data for counties are usually published after a lag of two years. Therefore, most data in this report cover the period 1969 to 1987. All data for this report was obtained from the Kentucky Economic Information System, an on-line database maintained by the University of Kentucky Center for Business and Economic Development.

There are certain caveats which should be remembered when analyzing data. First, it is a common and useful approach to evaluate the percentage an economic sector contributes to the total economy. However, one must remember that a sector's percentage contribution may decline even when its absolute value is increasing if another sector's contribution is growing at a faster rate. Secondly, when reviewing data in graphical analyses, the scales used to present data should be noted. In this report most graphs are presented with the narrowest scale which will cover all data points. This can accentuate visual patterns over time even when absolute changes are relatively small.

^{*}For an analysis of economic trends in Kentucky, see Virginia Wilson, Patterns of Growth and Decline in the Kentucky Economy 1969-1988, Research Memorandum 437, Legislative Research Commission, November 1989.

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ECONOMIC TRENDS IN BOONE COUNTY

The following analysis includes a brief description of the county economy and is accompanied by graphical illustrations. Data tables are also included at the end of this report. Three principal components of the Boone County economy are analyzed. They are:

- 1. Personal Income
- 2. Earnings
- 3. Employment

Personal Income

Personal income is often used as a measure of the economic activity in an area. Personal income is the sum of all the dollar income received by individuals in an area from any legal source. Personal income data is published by the Bureau of Economic Analysis (BEA) for most major geographic regions, including states, counties, and major cities.

In general, income can be obtained in three ways. First, it can be earned by the work of an individual. This type of income includes wage and salary income and proprietors' earnings. Second, income can be earned by property. This component includes earnings from rents, dividends, and interest. Finally, income can be received as a gift or an entitlement. This type of income constitutes the component of personal income called transfer payments. Included in this component is income from sources such as retirement benefits, unemployment benefits, food stamps, and medical programs such as Medicare and Medicaid.

As can be seen in Chart 1A, the size of the Boone County economy, as measured by personal income, increased from \$325 million in 1969 to \$781 million in 1987, after adjusting for inflation. Chart 1B shows Boone County total personal income as a percent of Kentucky total personal income. Boone County has increased its share of Kentucky personal income.

A similar pattern emerges from an examination of per capita personal income. Per capita personal income is simply the total personal income of an area divided by its population. Per capita personal income is often used as a measure of the economic well-being of the residents of an area. Charts 1C and 1D indicate that Boone County per capita income increased over the time period to a level of \$14,520 per person in 1987 and was 116.2 percent of Kentucky per capita personal income.

A better understanding of the nature of economic activity can be gleaned from an examination of the relative contribution of the components of personal income and how their share has changed over time. This information is illustrated in Charts 2A-2D. Total earnings increased from \$281 million in 1969 to \$623 million in 1987 (in constant 1988 dollars) and increased at a stable rate. While earnings have increased, their share of personal income has declined over time. This trend is occurring at the state level as well.

In 1987, earnings accounted for 79.7 percent of Boone County's total personal income, which was significantly higher than Kentucky's 67.5 percent share.

Transfer payments contributed \$20 million to total personal income in 1969 and \$82 million in 1987. During the same period, transfer payments contributed a smaller percentage of personal income in Boone County than in Kentucky.

Income from property in Boone County grew at a stable rate through the time period. Income from property totalled \$25 million in 1969 and increased to \$77 million in 1987.

Earnings

Earnings are the component of personal income reflecting payments to individuals in return for labor. Earnings include both wage and salary and proprietor's income. Boone County had a very strong manufacturing sector in the 1970's. In 1969, Boone County received 30.2 percent of total earnings from manufacturing. By 1979, this percent increased to 38.4. However, by 1987, manufacturing earnings accounted for 27.8 percent of total earnings (Chart 3A). While the share of manufacturing earnings as a percent of total county earnings has declined, Boone County's share of state manufacturing earnings has increased (Chart 3C).

Chart 3A also indicates that farming's contribution to total county earnings is minimal and decreased from 6.7 percent in 1969 to 1.3 percent in 1987. Earnings from mining were also minimal throughout the period.

Earnings from non-goods-producing industries as a percent of total earnings are illustrated in Chart 3B. The percent of earnings from both the services and trade sectors have increased (Chart 3B). Earnings from the state and local government sector remained stable. At the state level, the percent of earnings from services increased, while the percent of earnings from trade and state and local government were stable.

Average earnings per job (adjusted for inflation) for Boone County and Kentucky are shown in Chart 3D. In Kentucky, average earnings per job reached a high of \$20,121 per person in 1978. Since then, average earnings per job declined and in 1987 they were \$18,636 per person. Trends in Boone County average earnings per job have been similar to state trends. Average earnings reached \$19,026 in 1987 and were above the Kentucky average for the first time since 1973.

Employment

Employment is considered any activity for which one receives financial remuneration in the form of wages or profits. Total employment in Boone County increased substantially during the data period. In 1969, total employment stood at 10,341 people. By 1987, that figure had increased to 35,839.

The unemployment rate, often used as an indicator of economic well-being, is the ratio of unemployed to the total civilian labor force. Unemployment is described as a condition of being out of work while actively seeking employment within the last thirty days. The civilian labor force is described as the proportion of population age 16 or older employed or actively seeking employment. Annual unemployment rates for Kentucky and Boone County are presented in Chart 4B. Unemployment rates in Boone County have been below those of the state throughout the period. In 1987, the county unemployment rate was 6.0 percent compared to 8.8 percent for Kentucky.

Another employment concept includes the discouraged worker. Discouraged workers are persons who want jobs but made no attempt to find work in the last thirty days because they believe they could not find it. These individuals The Cabinet for Human are not included when calculating unemployment rates. not estimate discouraged workers county. Resources does by that preliminary research by the Cabinet indicates the inclusion of discouraged workers in the civilian labor force estimate would increase the unemployment rate by approximately four percent for the state. This figure would vary by county depending on the labor market in a county or within commuting distance.

Employment in the goods-producing industries is illustrated in Chart 4C. Employment trends in manufacturing parallel those in earnings. The percent of total employment in manufacturing decreased from 24.4 percent in 1969 to 19.4 percent in 1987. State employment in manufacturing has also declined. Similar to trends in farm earnings, farm employment in Boone County decreased through the period.

Employment in the non-goods-producing industries is presented in Chart 4D. Employment in the trade sector surpassed manufacturing, to become the primary source of employment in 1976. By 1987, 26.2 percent of employment was in the trade sector. The services sector became the second highest employer in 1986. In 1969, the service sector accounted for 9.8 percent of employment. This share increased to 20.6 percent in 1987. In spite of these changing employment patterns, earnings from manufacturing remained the largest component of personal income, reflecting the high wages in this sector. Employment in state and local government declined slightly. These employment trends in non-goods-producing sectors reflect state employment trends.

Population

The census conducted each decade counts the actual population in an area. Population is then statistically estimated during intervening years. The demographic composition of this population growth has important implications for the future demand for goods and services, and ultimately, the economic structure of Boone County.

The Boone County population grew steadily from 31,700 in 1969 to 53,800 in 1987 (Chart 5A). Boone County has a higher proportion of younger residents and a smaller proportion of older resident than the state. It was estimated that in 1986, 9.9 percent of Boone County's population was under six years of age, compared to 8.6 percent for the state. Conversely, for the same year 12.0 percent of the Boone County population was 60 years of age and over while 16.5 percent of all Kentucky residents fell in this age group.

CHART 1A
BOONE COUNTY
REAL PERSONAL INCOME
Millions of 1988 dollars

as a Percent of Kentucky Personal Income

BOONE COUNTY PERSONAL INCOME

CHART 1B

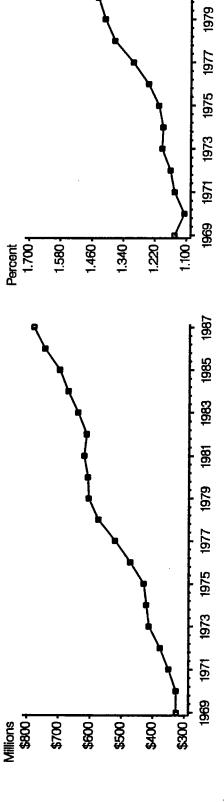


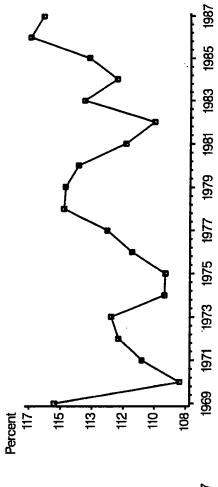
CHART 1D
BOONE COUNTY
PER CAPITA PERSONAL INCOME
as a Percent of Kentucky Per Capita Personal Income

1987

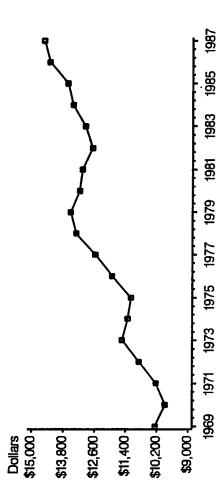
1985

1983

1981







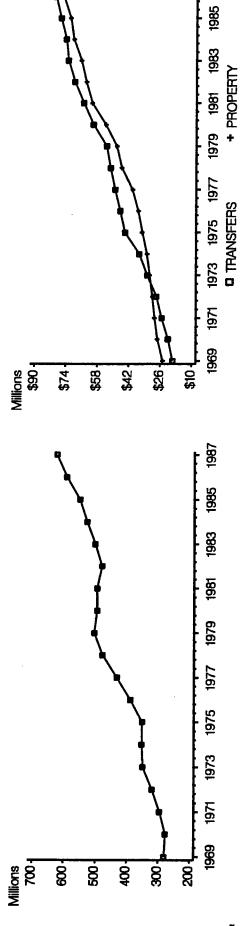
REAL TOTAL EARNINGS Millions of 1988 dollars **BOONE COUNTY** CHART 2A

TRANSFER PAYMENTS and INCOME FROM PROPERTY

BOONE COUNTY

CHART 2B

Millions of 1988 Dollars



as a Percent of Personal Income TRANSFER PAYMENTS **BOONE COUNTY**

as a Percent of Personal Income

Percent

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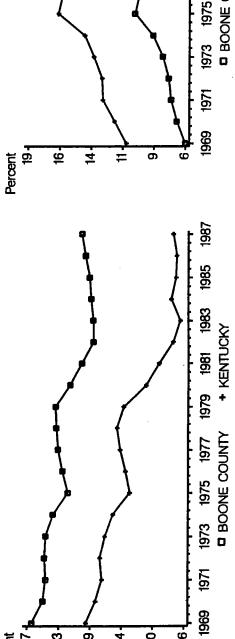
TOTAL EARNINGS

BOONE COUNTY

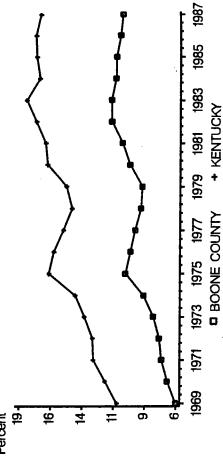
CHART 2C

CHART 2D

1987

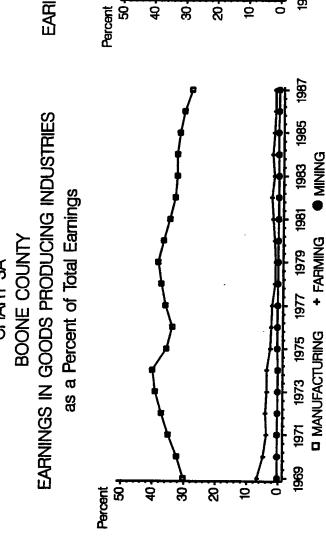


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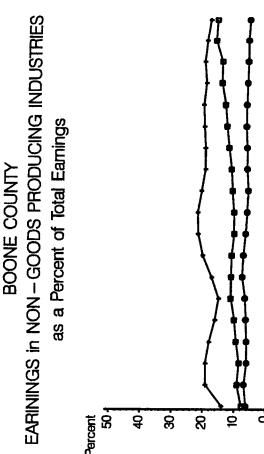
BOONE COUNTY CHART 3A

CHART 3B



EARNINGS in GOODS PRODUCING INDUSTRIES as a Percent of Kentucky Industries **BOONE COUNTY**

CHART 3C



AVERAGE EARNINGS PER JOB in Constant 1988 Dollars BOONE COUNTY

CHART 3D

1987

1981

1979

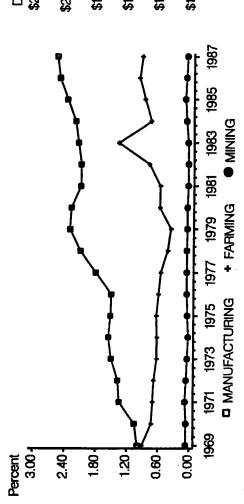
1975

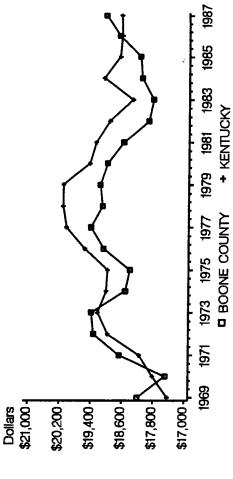
1973

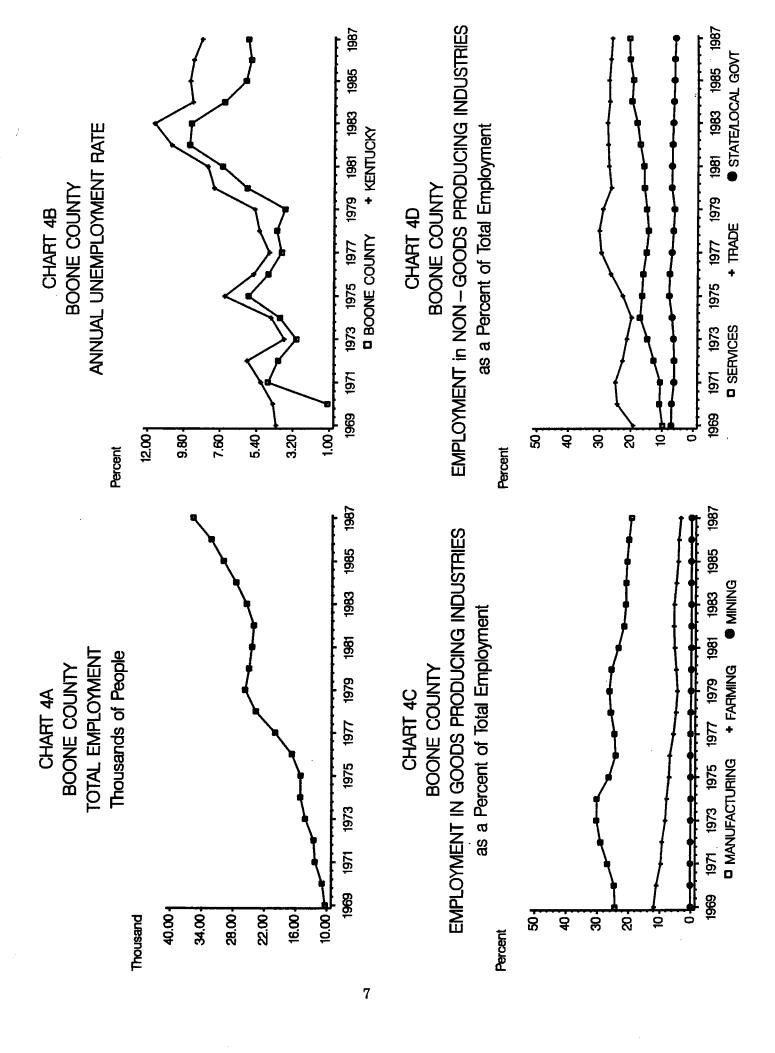
a SERVICES 1971

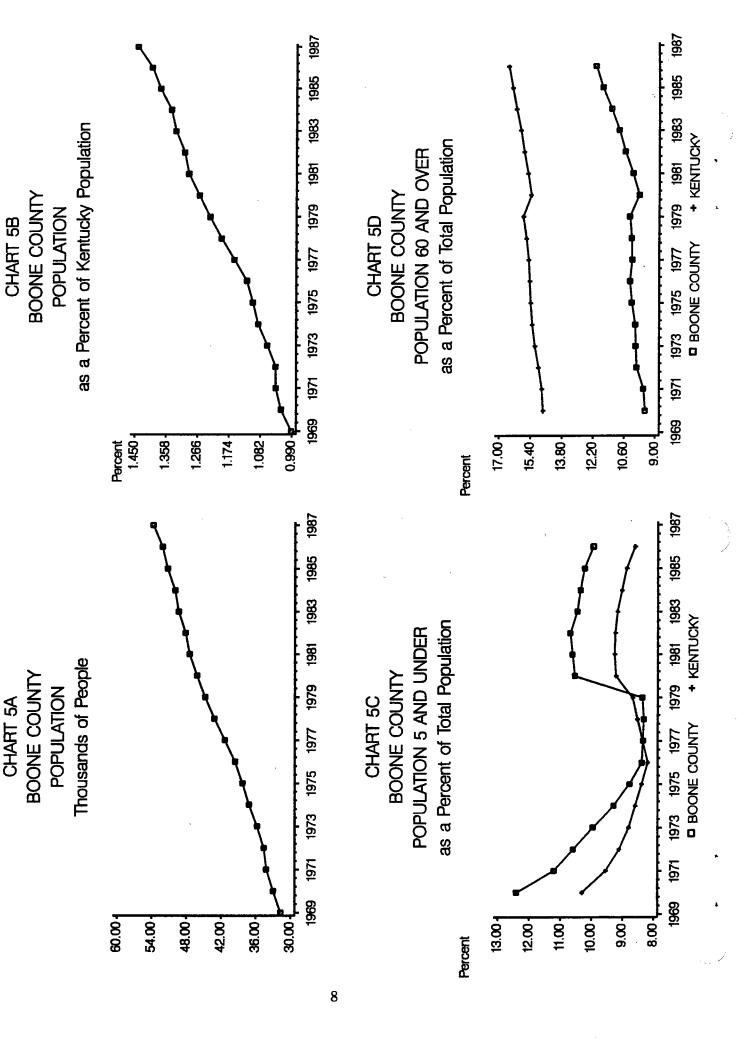
+ TRADE 1977

■ STATE/LOCAL GOVT









PERSONAL INCOME In Constant 1988 Dollars

| Year | County Personal Income (M\$) | Percent of Kentucky (%) | Per Capita Personal Income (\$) | Percent of Kentucky (%) |
|--|---|--|---|---|
| 1969 1970 1971 1972 1973 1974 1975 1976 1977 1978 1979 1980 1981 1982 1983 1984 1985 | 325 326 350 377 413 421 429 472 521 574 605 608 620 612 640 672 699 | 1.14 1.11 1.14 1.16 1.19 1.19 1.21 1.25 1.30 1.38 1.41 1.44 1.44 1.43 1.51 1.51 | 10,267 9,879 10,232 10,901 11,531 11,321 11,207 11,929 12,579 13,306 13,517 13,169 13,069 12,689 12,689 12,959 13,428 13,630 | 115.6 108.4 110.5 111.9 112.3 109.3 109.2 111.1 112.5 115.0 114.9 114.2 111.5 109.8 113.9 112.0 113.6 |
| 1986 1987 | 747 781 | 1.64 1.68 | 14,308 14,520 | 116.9 116.2 |

COMPONENTS OF PERSONAL INCOME In Constant 1988 Dollars

| | EARNINGS | | TRAI | TRANSFER PAYMENTS | | | INCOME from PROPERTY | | |
|------|-------------------------------|--------|----------|-------------------|--------|----------|----------------------|-----------------------|----------|
| | Percent of Personal Income | | | | | | | cent of nal Income | |
| Year | M\$ | County | Kentucky | M \$ | County | Kentucky | M\$ | County | Kentucky |
| 1969 | 281 | 86.4 | 79.2 | 20 | 6.0 | 10.9 | 25 | 7.6 | 9.9 |
| 1970 | 277 | 84.9 | 77.9 | 22 | 6.7 | 11.9 | 27 | 8.4 | 10.2 |
| 1971 | 295 | 84.5 | 77.0 | 25 | 7.2 | 12.9 | 29 | 8.3 | 10.1 |
| 1972 | 319 | 84.7 | 77.3 | 28 | 7.4 | 12.9 | 30 | 7.9 | 9.7 |
| 1973 | 349 | 84.5 | 76.6 | 33 | 7.9 | 13.6 | 31 | 7.6 | 9.7 |
| 1974 | 352 | 83.5 | 75.5 | 37 | 8.7 | 14.4 | 33 | 7.8 | 10.1 |
| 1975 | 350 | 81.6 | 73.3 | 44 | 10.2 | 16.5 | 35 | 8.2 | 10.1 |
| 1976 | 389 | 82.3 | 73.9 | 46 | 9.8 | 16.1 | 37 | 7.9 | 10.0 |
| 1977 | 432 | 82.9 | 74.6 | 49 | 9.4 | 15.3 | 40 | 7.7 | 10.1 |
| 1978 | 477 | 83.1 | 75.0 | 51 | 8.9 | 14.6 | 46 | 8.0 | 10.4 |
| 1979 | 503 | 83.2 | 74.1 | 53 | 8.8 | 15.1 | 48 | 8.0 | 10.8 |
| 1980 | 494 | 81.3 | 71.1 | 60 | 9.9 | 16.7 | 54 | 8.8 | 12.2 |
| 1981 | 494 | 79.7 | 69.3 | 65 | 10.5 | 16.8 | 61 | 9.8 | 13.8 |
| 1982 | 479 | 78.2 | 67.5 | 70 | 11.4 | 17.6 | 64 | 10.4 | 14.9 |
| 1983 | 501 | 78.2 | 66.6 | 73 | 11.4 | 18.4 | 66 | 10.4 | 15.1 |
| 1984 | 527 | 78.5 | 67.8 | 74 | 11.0 | 17.3 | 70 | 10.5 | 14.9 |
| 1985 | 550 | 78.7 | 67.2 | 77 | 11.0 | 17.6 | 72 | 10.3 | 15.3 |
| 1986 | 592 | 79.2 | 67.1 | 80 | 10.7 | 17.6 | 75 | 10.3 | 15.3 |
| | | 79.7 | | | | | | | |
| 1987 | 623 | 13.1 | 67.5 | 82 | 10.5 | 17.2 | 77 | 9.8 | 15.3 |

SECTOR EARNINGS as a PERCENT of TOTAL COUNTY EARNINGS and as a PERCENT of KENTUCKY SECTOR EARNINGS

| | MANUF | ACTURING | FARMING | | M | INING |
|------|-------|----------|---------|----------|-------|----------|
| YEAR | TOTAL | KENTUCKY | TOTAL | KENTUCKY | TOTAL | KENTUCKY |
| 1969 | 30.2 | 1.00 | 6.7 | 0.91 | 0.3 | 0.07 |
| 1970 | 32.3 | 1.05 | 4.7 | 0.73 | 0.3 | 0.06 |
| 1971 | 35.1 | 1.34 | 3.8 | 0.70 | 0.4 | 0.08 |
| 1972 | 37.2 | 1.37 | 4.1 | 0.68 | 0.3 | 0.06 |
| 1973 | 39.2 | 1.51 | 3.7 | 0.62 | 0.2 | 0.04 |
| 1974 | 40.0 | 1.56 | 3.7 | 0.62 | 0.2 | 0.03 |
| 1975 | 35.7 | 1.52 | 2.6 | 0.64 | 0.4 | 0.05 |
| 1976 | 33.9 | 1.51 | 2.3 | 0.59 | 0.4 | 0.05 |
| 1977 | 36.0 | 1.80 | 2.1 | 0.55 | 0.4 | 0.06 |
| 1978 | 37.4 | 2.09 | 1.2 | 0.42 | 0.3 | 0.06 |
| 1979 | 38.4 | 2.30 | 1.0 | 0.36 | 0.2 | 0.05 |
| 1980 | 36.7 | 2.27 | 1.4 | 0.57 | 0.3 | 0.05 |
| 1981 | 34.8 | 2.09 | 1.9 | 0.57 | 0.2 | 0.04 |
| 1982 | 33.1 | 2.09 | 2.3 | 0.79 | 0.2 | 0.03 |
| 1983 | 32.5 | 2.14 | 1.6 | 1.36 | 0.2 | 0.04 |
| 1984 | 32.5 | 2.20 | 2.1 | 0.75 | 0.3 | 0.07 |
| 1985 | 31.7 | 2.35 | 1.6 | 0.87 | 0.3 | 0.10 |
| 1986 | 30.2 | 2.50 | 1.3 | 0.98 | 0.2 | 0.07 |
| 1987 | 27.8 | 2.55 | 1.3 | 0.92 | 0.1 | 0.06 |

| | SERVICES | | T | RADE | STATE and LOCAL GOVERNMENT | |
|------|----------|----------|-------|----------|-------------------------------|----------|
| YEAR | TOTAL | KENTUCKY | TOTAL | KENTUCKY | TOTAL | KENTUCKY |
| 1969 | 7.6 | 0.47 | 14.0 | 0.72 | 6.3 | 0.56 |
| 1970 | 9.1 | 0.56 | 19.1 | 0.96 | 6.9 | 0.58 |
| 1971 | 8.5 | 0.60 | 19.2 | 1.13 | 6.1 | 0.59 |
| 1972 | 9.4 | 0.67 | 18.0 | 1.07 | 6.1 | 0.60 |
| 1973 | 10.1 | 0.77 | 16.2 | 1.03 | 6.4 | 0.68 |
| 1974 | 11.2 | 0.89 | 15.0 | 0.98 | 6.7 | 0.74 |
| 1975 | 11.1 | 0.85 | 17.3 | 1.08 | 7.6 | 0.79 |
| 1976 | 11.0 | 0.90 | 20.2 | 1.37 | 7.2 | 0.83 |
| 1977 | 10.2 | 0.97 | 21.7 | 1.75 | 6.5 | 0.87 |
| 1978 | 10.3 | 1.09 | 21.8 | 1.93 | 6.1 | 0.91 |
| 1979 | 10.8 | 1.21 | 20.6 | 1.95 | 5.8 | 0.90 |
| 1980 | 11.2 | 1.17 | 19.5 | 1.90 | 6.2 | 0.92 |
| 1981 | 12.0 | 1.20 | 19.5 | 1.89 | 6.3 | 0.91 |
| 1982 | 12.7 | 1.18 | 19.9 | 1.86 | 6.5 | 0.90 |
| 1983 | 13.2 | 1.22 | 20.1 | 1.96 | 6.5 | 0.92 |
| 1984 | 14.4 | 1.38 | 19.3 | 2.01 | 6.2 | 0.95 |
| 1985 | 14.3 | 1.43 | 19.9 | 2.21 | 6.1 | 0.98 |
| 1986 | 16.4 | 1.66 | 19.2 | 2.35 | 6.0 | 1.03 |
| 1987 | 16.0 | 1.72 | 18.1 | 2.45 | 5.6 | 1.06 |

COUNTY EMPLOYMENT by SECTOR

| | MANUFACT | URING | FARMING | | MINING | |
|------|----------------|---------------------|------------|---------------------|------------|---------------------|
| YEAR | EMPLOYMENT | PERCENT OF TOTAL | EMPLOYMENT | PERCENT OF TOTAL | EMPLOYMENT | PERCENT OF TOTAL |
| 1969 | 2,528 | 24.4 | 1,230 | 11.9 | 17 | 0.2 |
| 1970 | 2,692 | 24.7 | 1,208 | 11.1 | 22 | 0.2 |
| 1971 | 3,302 | 26.8 | 1,183 | 9.6 | 29 | 0.2 |
| 1972 | 3,655 | 29.1 | 1,164 | 9.3 | 23 | 0.2 |
| 1973 | 4,311 | 30.3 | 1,169 | 8.2 | 25 | 0.2 |
| 1974 | 4,578 | 30.2 | 1,175 | 7.8 | 20 | 0.1 |
| 1975 | 4,007 | 26.5 | 1,064 | 7.0 | 30 | 0.2 |
| 1976 | 4,081 | 24.3 | 1,137 | 6.8 | 42 | 0.2 |
| 1977 | 4,932 | 24.7 | 1,129 | 5.6 | 42 | 0.2 |
| 1978 | 6,140 | 25.9 | 1,154 | 4.9 | 43 | 0.2 |
| 1979 | 6 , 787 | 26.4 | 1,159 | 4.5 | 38 | 0.1 |
| 1980 | 6,424 | 25.7 | 1,231 | 4.9 | 32 | 0.1 |
| 1981 | 5,749 | 23.5 | 1,318 | 5.4 | 19 | 0.1 |
| 1982 | 5,211 | 21.6 | 1,358 | 5.6 | 16 | 0.1 |
| 1983 | 5 , 377 | 21.0 | 1,399 | 5.5 | 22 | 0.1 |
| 1984 | 5,784 | 21.0 | 1,335 | 4.8 | 44 | 0.2 |
| 1985 | 6,193 | 20.7 | 1,296 | 4.3 | 52 | 0.2 |
| 1986 | 6,504 | 20.1 | 1,335 | 4.1 | 49 | 0.2 |
| 1987 | 6,936 | 19.4 | 1,281 | 3.6 | 38 | 0.1 |

| SERVI | | CES | TRAD | E | STATE and GOVERN | |
|-------|------------|---------------------|------------|---------------------|---------------------|---------------------|
| YEAR | EMPLOYMENT | PERCENT OF TOTAL | EMPLOYMENT | PERCENT OF TOTAL | EMPLOYMENT | PERCENT OF TOTAL |
| 1969 | 1,013 | 9.8 | 1,986 | 19.2 | 720 | 7.0 |
| 1970 | 1,179 | 10.8 | 2,667 | 24.4 | 748 | 6.9 |
| 1971 | 1,301 | 10.6 | 3,080 | 25.0 | 756 | 6.1 |
| 1972 | 1,606 | 12.8 | 2,855 | 22.7 | 769 | 6.1 |
| 1973 | 2,106 | 14.8 | 3,030 | 21.3 | 899 | 6.3 |
| 1974 | 2,608 | 17.2 | 3,002 | 19.8 | 1,032 | 6.8 |
| 1975 | 2,495 | 16.5 | 3,430 | 22.7 | 1,168 | 7.7 |
| 1976 | 2,724 | 16.2 | 4,471 | 26.6 | 1,269 | 7.6 |
| 1977 | 3,043 | 15.2 | 5,941 | 29.7 | 1,377 | 6.9 |
| 1978 | 3,448 | 14.5 | 7,186 | 30.3 | 1,523 | 6.4 |
| 1979 | 3,899 | 15.1 | 7,523 | 29.2 | 1,579 | 6.1 |
| 1980 | 3,982 | 15.9 | 6,654 | 26.6 | 1,766 | 7.1 |
| 1981 | 3,932 | 16.1 | 6,677 | 27.3 | 1,711 | 7.0 |
| 1982 | 4,164 | 17.2 | 6,682 | 27.7 | 1,641 | 6.8 |
| 1983 | 4,662 | 18.2 | 7,118 | 27.9 | 1,689 | 6.6 |
| 1984 | 5,485 | 19.9 | 7,479 | 27.1 | 1,774 | 6.4 |
| 1985 | 5,825 | 19.4 | 8,159 | 27.2 | 1,873 | 6.2 |
| 1986 | 6,614 | 20.4 | 8,640 | 26.7 | 1,986 | 6.1 |
| 1987 | 7,365 | 20.6 | 9,395 | 26.2 | 2,073 | 5.8 |

EMPLOYMENT STATISTICS

| | | AVERAGE | EARNINGS | UNEMPLOYMENT RATE | |
|------|------------------|----------|----------|-------------------|----------|
| YEAR | TOTAL EMPLOYMENT | COUNTY | KENTUCKY | COUNTY | KENTUCKY |
| 1969 | 10,341 | \$18,204 | \$17,440 | • | 4.2 |
| 1970 | 10,918 | \$17,494 | \$17,811 | 1.1 | 4.4 |
| 1971 | 12,300 | \$18,667 | \$18,166 | 4.7 | 5.1 |
| 1972 | 12,572 | \$19,333 | \$18,970 | 4.1 | 6.0 |
| 1973 | 14,216 | \$19,390 | \$19,232 | 3.0 | 3.7 |
| 1974 | 15,140 | \$18,523 | \$19,008 | 4.0 | 4.5 |
| 1975 | 15,101 | \$18,404 | \$18,976 | 5.9 | 7.3 |
| 1976 | 16,802 | \$19,085 | \$19,563 | 4.7 | 5.6 |
| 1977 | 20,007 | \$19,407 | \$20,031 | 3.9 | 4.7 |
| 1978 | 23,734 | \$19,111 | \$20,121 | 4.2 | 5.3 |
| 1979 | 25,746 | \$19,173 | \$20,110 | 3.7 | 5.5 |
| 1980 | 25,021 | \$18,986 | \$19,439 | 6.0 | 8.0 |
| 1981 | 24,475 | \$18,574 | \$19,286 | 7.5 | 8.4 |
| 1982 | 24,142 | \$17,933 | \$18,931 | 9.5 | 10.6 |
| 1983 | 25,550 | \$17,817 | \$18,358 | 9.4 | 11.6 |
| 1984 | 27,577 | \$18,119 | \$19,080 | 7.4 | 9.3 |
| 1985 | 29,968 | \$18,163 | \$18,676 | 6.1 | 9.5 |
| 1986 | 32,348 | \$18,684 | \$18,627 | 5.8 | 9.3 |
| 1987 | 35,839 | \$19,026 | \$18,636 | 6.0 | 8.8 |

POPULATION STATISTICS

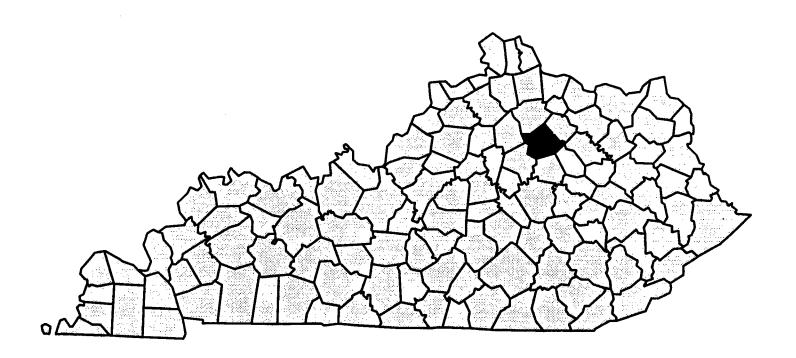
| | | | PERCENT U | NDER AGE 6 | PERCENT | AGE 60+ |
|------|------------|---------|-----------|------------|---------|----------|
| YEAR | POPULATION | % OF KY | COUNTY | KENTUCKY | COUNTY | KENTUCKY |
| 1969 | 31,700 | 0.99 | | | | |
| 1970 | 33,000 | 1.02 | 12.4 | 10.3 | 9.5 | 14.8 |
| 1971 | • | 1.04 | | 9.6 | 9.6 | |
| 1972 | 34,600 | 1.04 | 10.6 | | 10.0 | |
| 1973 | 35,800 | | 9.9 | | 10.0 | |
| 1974 | 37,200 | 1.09 | 9.3 | | 10.0 | |
| 1975 | 38,300 | 1.10 | 8.8 | | 10.2 | |
| 1976 | 39,600 | 1.12 | 8.4 | | 10.3 | |
| 1977 | 41,400 | 1.16 | 8.4 | | 10.2 | |
| 1978 | 43,200 | 1.20 | 8.3 | | 10.2 | |
| 1979 | 44,800 | 1.23 | 8.4 | 8.7 | 10.3 | |
| 1980 | 46,200 | 1.26 | 10.5 | 9.2 | 9.8 | 15.4 |
| 1981 | 47,500 | 1.29 | 10.6 | 9.3 | 10.2 | 15.5 |
| 1982 | 48,200 | 1.30 | 10.7 | 9.2 | 10.5 | 15.7 |
| 1983 | 49,400 | 1.33 | 10.5 | 9.2 | 10.9 | 15.9 |
| 1984 | 50,000 | 1.34 | 10.4 | 9.0 | 11.3 | 16.1 |
| 1985 | 51,300 | 1.38 | 10.2 | 8.9 | 11.7 | 16.3 |
| 1986 | 52,200 | 1.40 | 9.9 | 8.6 | 12.0 | 16.5 |
| 1987 | 53,800 | 1.44 | • | • | • | • |

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ECONOMIC TRENDS IN KENTUCKY COUNTIES 1969-1987

BOURBON COUNTY



Prepared by Virginia Wilson Donna A. Cantrell

RESEARCH MEMORANDUM 438 Legislative Research Commission Frankfort, Kentucky February, 1990

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FOREWORD

This publication is one of a set of 120, highlighting economic trends in each county in Kentucky from 1969-1987. This effort is part of the ongoing activities sponsored by the Legislative Research Commission to provide a long-term perspective on issues for decision makers. The economies of individual counties do not always parallel overall state trends. This set of publications is an attempt to look at the economic trends in each county over time and to point out where the economies of individual counties may be performing differently from the economy of the state as a whole.

This publication was prepared by Virginia Wilson and Donna Cantrell. Susan Dance assisted in production of the manuscript and Charles Bush edited the report. The assistance of Carol Straus from the Center for Business and Economic Research at the University of Kentucky in deciphering data is gratefully acknowledged.

Vic Hellard, Jr. Director

The Capitol Frankfort February, 1990

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SUMMARY

Bourbon County experienced moderate economic growth from 1969 to 1987. However, this overall growth has been interspersed with periods of economic decline. Bourbon County's share of Kentucky personal income decreased over time, indicating its economy is growing at a slower rate than the state's.

Bourbon County enjoyed a period of rapid economic growth from 1978 to 1981. However, the events associated with the national recession in 1982 severely curtailed this growth. By 1984, the economy began to recover. Much of the growth and decline in the county economy was driven by activity in the farm sector.

The farm sector was the primary source of employment in Bourbon County. However, employment in both the service and trade sectors is growing. This is consistent with state trends in these sectors.

There is a national and state trend toward declining farm employment. Therefore, the outlook for this sector in Bourbon County is for continued decline. Future economic growth in Bourbon County will most likely be dependent upon further expansion of the service and trade sectors.

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INTRODUCTION

This is one of a series of reports called <u>Economic Trends in Kentucky Counties</u>. The purpose of this series is to describe the economic structure of Kentucky counties and to assess their economic performance relative to their own history and relative to the Kentucky economy. Information on the structure and patterns of change in County economies and an understanding of their relationship to the Kentucky economy can help in making policy decisions that are intended to shape Kentucky's economic future.*

When assessing any economy there are several pertinent questions which may be addressed. The first concerns changes in the absolute size of the economy over time. Here the relevant comparison is between the county economy and its own history. Since most economic variables are given in dollars and because inflation causes the value of a dollar to vary over time, all dollar values in this report are presented in constant 1988 dollars. This allows analysis of real changes over time by controlling for the effects of inflation.

A second question concerns the structure and nature of the county economy. The structure of an economy refers to the relative share contributed by the various segments of the economy, while the nature deals with how this share has changed over time.

A third question concerns the performance of the county economy when compared to the Kentucky economy. For example, if a county has a higher proportion of earnings or employment in a sector it would indicate a specialization in that sector. Differences in economic structure may explain variations in relative economic well-being between a county and the state as a whole.

Economic data for counties are usually published after a lag of two years. Therefore, most data in this report cover the period 1969 to 1987. All data for this report was obtained from the Kentucky Economic Information System, an on-line database maintained by the University of Kentucky Center for Business and Economic Development.

There are certain caveats which should be remembered when analyzing data. First, it is a common and useful approach to evaluate the percentage an economic sector contributes to the total economy. However, one must remember that a sector's percentage contribution may decline even when its absolute value is increasing if another sector's contribution is growing at a faster rate. Secondly, when reviewing data in graphical analyses, the scales used to present data should be noted. In this report most graphs are presented with the narrowest scale which will cover all data points. This can accentuate visual patterns over time even when absolute changes are relatively small.

^{*}For an analysis of economic trends in Kentucky, see Virginia Wilson, Patterns of Growth and Decline in the Kentucky Economy 1969-1988, Research Memorandum 437, Legislative Research Commission, November 1989.

ECONOMIC TRENDS IN BOURBON COUNTY

The following analysis includes a brief description of the county economy and is accompanied by graphical illustrations. Data tables are also included at the end of this report. Three principal components of the Bourbon County economy are analyzed. They are:

- 1. Personal Income
- 2. Earnings
- 3. Employment

Personal Income

Personal income is often used as a measure of the economic activity in an area. Personal income is the sum of all the dollar income received by individuals in an area from any legal source. Personal income data is published by the Bureau of Economic Analysis (BEA) for most major geographic regions, including states, counties, and major cities.

In general, income can be obtained in three ways. First, it can be earned by the work of an individual. This type of income includes wage and salary income and proprietors' earnings. Second, income can be earned by property. This component includes earnings from rents, dividends, and interest. Finally, income can be received as a gift or an entitlement. This type of income constitutes the component of personal income called transfer payments. Included in this component is income from sources such as retirement benefits, unemployment benefits, food stamps, and medical programs such as Medicare and Medicaid.

As can be seen in Chart 1A, the Bourbon County economy, as measured by personal income, increased from \$187 million in 1969 to \$256 million in 1987, after adjusting for inflation. In spite of this overall increase, periods of economic growth have been interspersed with periods of weakness. This is especially obvious for the years 1978 to 1983, when income increased dramatically and then declined, a typical boom/bust scenario. By 1987, the economy had somewhat recovered. Chart 1B shows Bourbon County total personal income as a percent of Kentucky total personal income. While also exhibiting erratic patterns, Bourbon County's share of Kentucky personal income has declined over the period.

A similar pattern emerges from an examination of per capita personal income. Per capita personal income is simply the total personal income of an area divided by its population. Per capita personal income is often used as a measure of the economic well-being of the residents of an area. Charts 1C and 1D indicate that while Bourbon County per capita income generally increased over the period to a level of \$13,266 per person in 1987, this was a decline from the peak of \$14,204 in 1979. In spite of these erratic trends, Bourbon County per capita personal income was 106.1 percent of Kentucky per capita personal income.

A better understanding of the nature of economic activity can be gleaned from an examination of the relative contribution of the components of personal income and how their share has changed over time. This information is illustrated in Charts 2A-2D. While total earnings increased from \$149 million in 1969 to \$179 million in 1987 (in constant 1988 dollars), earnings reached their highest level, \$205 million, in 1979. In 1987, earnings accounted for 69.9 percent of Bourbon County's total personal income, which was slightly more than Kentucky's 67.5 percent share.

Transfer payments contributed \$16 million to total personal income in 1969 and \$37 million in 1987. Transfer payments contributed a smaller percentage of personal income in Bourbon County than in Kentucky.

Income from property in Bourbon County exceeded income from transfer payments through most of the time period. This is unlike state trends, where income from transfer payments exceeds that from property. Income from property totalled \$23 million in 1969 and increased to \$40 million in 1987.

Earnings

Earnings are the component of personal income reflecting payments to individuals in return for labor. Earnings include both wage and salary and proprietor's income. Chart 3A illustrates that farm earnings as a percent of total county earnings were declining in the early to mid-1970's, gained strength in the late 1970's and peaked at 43.9 percent in 1981. This share subsequently declined to 29.0 percent in 1987. This pattern indicates that the farm sector was the driving force behind the boom/bust pattern of economic growth in Bourbon County in the last decade.

Compared to farming, manufacturing was more stable in the Bourbon County economy. In 1969, Bourbon County received 16.7 percent of total earnings from manufacturing. This percentage decreased to 14.6 percent in 1987. The slight trend toward decreasing concentration in manufacturing is like that for the state. Earnings from mining were minimal throughout the period.

The percent of earnings derived from services was cyclical through the period (Chart 3B). It is interesting to note that when the farm sector share of earnings increased, the service sector share of earnings declined. However, by 1987, the service sector share increased to 10.3 percent. The percent of earnings from trade increased slightly from 11.6 percent in 1969 to 13.8 percent in 1987. The percent of earnings from state and local governments declined slightly. These trends differ from that of the state, where the percentage of earnings from the service sector increased significantly, while the percentage of earnings in both the trade and state and local government sectors was flat.

Average earnings per job (adjusted for inflation) for Bourbon County and Kentucky are shown in Chart 3D. In Kentucky, average earnings per job reached a high of \$20,121 per person in 1978. Since then, average earnings per job declined and in 1987 they were \$18,636 per person. In Bourbon County, average earnings followed a similar pattern, by increasing to a high of \$19,404 in

1979, then declining to \$16,567 in 1987, which was below Kentucky average earnings.

Employment

Employment is considered any activity for which one receives financial remuneration in the form of wages or profits. Total employment in Bourbon County increased somewhat during the data period. In 1969, total employment stood at 8,725 people. By 1987, that figure had barely increased to 9,505.

The unemployment rate, often used as an indicator of economic well-being, is the ratio of unemployed to the total civilian labor force. Unemployment is described as a condition of being out of work while actively seeking employment within the last thirty days. The civilian labor force is described as the proportion of population age 16 or older employed or actively seeking employment. Annual unemployment rates for Kentucky and Bourbon County are presented in Chart 4B. Unemployment rates in Bourbon County were below those of the state throughout the period. In 1987, Bourbon County had an unemployment rate of 6.5 percent, compared to 8.8 percent for the state.

Another employment concept includes the discouraged worker. Discouraged workers are persons who want jobs but made no attempt to find work in the last thirty days because they believe they could not find it. These individuals are not included when calculating official unemployment rates. The Cabinet for Human Resources does not estimate discouraged workers by county. However, preliminary research by the Cabinet indicates that the inclusion of discouraged workers in the civilian labor force estimate would increase the unemployment rate by approximately four percent for the state. This figure would vary by county depending on the labor market in a county or within commuting distance.

Employment in the goods-producing industries is illustrated in Chart 4C. While the percent of Bourbon County total employment in agriculture declined, it remained the county's predominant source of employment. Even though farm earnings increased rapidly in the early 1980's, farm employment remained fairly stable. In 1987, 24.4 percent of employment was in farming. The percent of total employment in manufacturing increased slightly during the seventies and then declined to 11.5 percent in 1987. These trends parallel those of the state.

Employment in the non-goods-producing industries is presented in Chart 4D. Similar to the trends in earnings for these sectors, the percent of Bourbon County employment in both the service and trade sectors increased, and employment in state and local government declined. Kentucky has experienced strong employment growth in the services and trade sectors, with flat growth in state and local government.

Population

The census conducted each decade counts the actual population in an area. Population is then statistically estimated through intervening years.

The demographic composition of this population growth has important implications for the future demand for goods and services, and ultimately, the economic structure of Bourbon County.

The Bourbon County population grew modestly from 18,400 in 1969 to 19,300 in 1987 (Chart 5A). Prior to 1980, Bourbon County's growth rates for the age group five and under generally paralleled those of the state. However, since 1980 this age group has comprised a consistently smaller proportion of the population. It was estimated that in 1986, 7.6 percent of Bourbon County's population was under six years of age, compared to 8.6 percent for the state. Conversely, for the same year 18.5 percent of the Bourbon County population was 60 years of age and over, while 16.5 percent of all Kentucky residents fell in this age group.

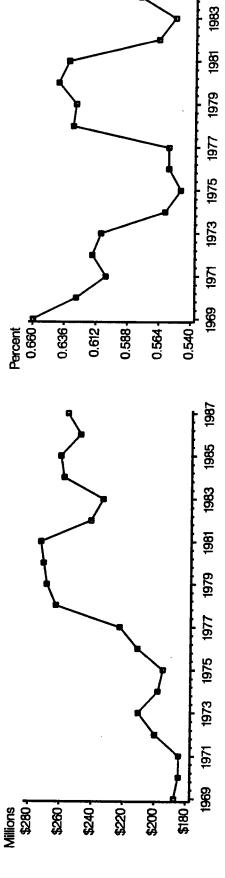
REAL PERSONAL INCOME Millions of 1988 dollars **BOURBON COUNTY** CHART 1A

as a Percent of Kentucky Personal Income

PERSONAL INCOME

BOURBON COUNTY

CHART 1B



as a Percent of Kentucky Per Capita Personal Income PER CAPITA PERSONAL INCOME **BOURBON COUNTY** CHART 1D

PER CAPITA PERSONAL INCOME

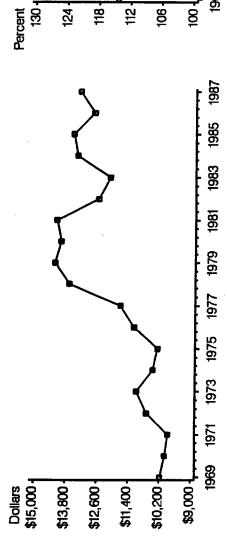
BOURBON COUNTY

CHART 1C

in Constant 1988 Dollars

1987

1985



118



1985 1987

1983

1981

1979

1977

1975

1973

1971

<u>9</u>

CHART 2A
BOURBON COUNTY
REAL TOTAL EARNINGS
Millions of 1988 dollars

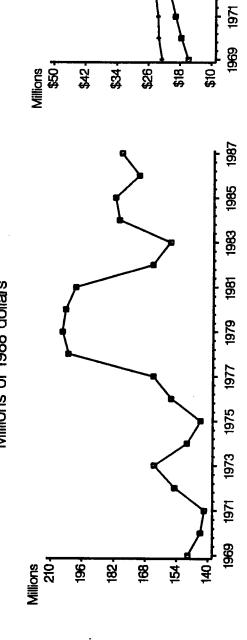


CHART 2B
BOURBON COUNTY
TRANSFER PAYMENTS and INCOME FROM PROPERTY
Millions of 1988 Dollars

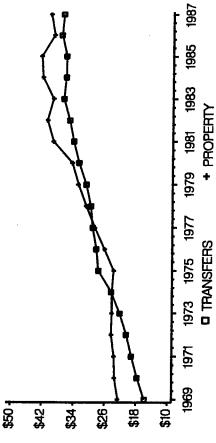
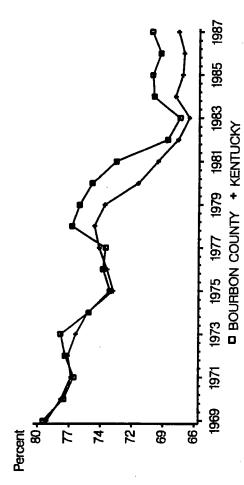


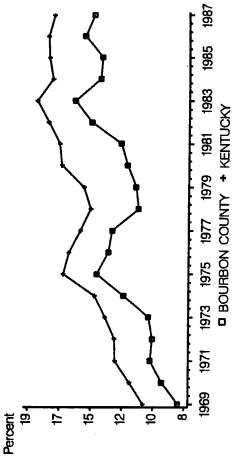
CHART 2D
BOURBON COUNTY
TRANSFER PAYMENTS
as a Percent of Personal Income

as a Percent of Personal Income

BOURBON COUNTY TOTAL EARNINGS

CHART 2C



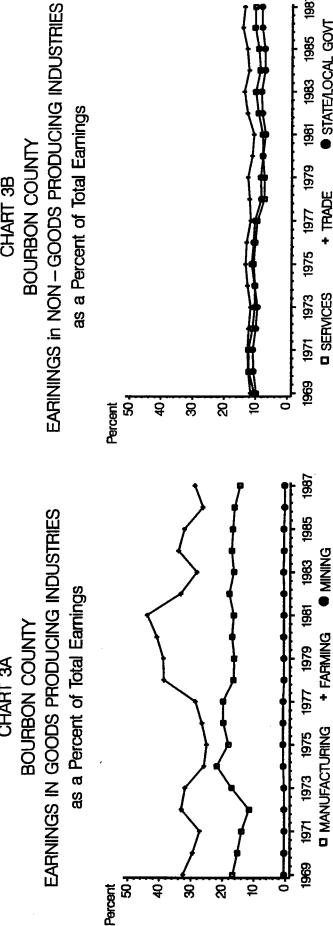


BOURBON COUNTY CHART 3A

as a Percent of Total Earnings

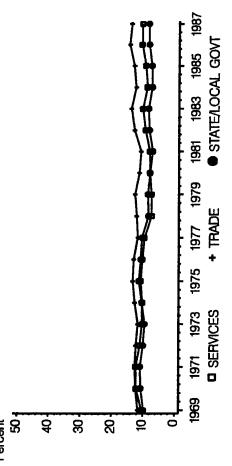
BOURBON COUNTY

CHART 3B

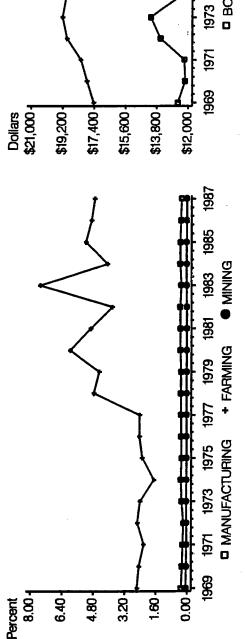


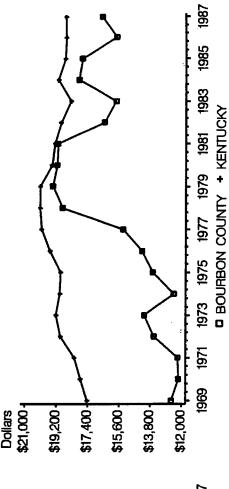
EARNINGS in GOODS PRODUCING INDUSTRIES as a Percent of Kentucky Industries **BOURBON COUNTY**

CHART 3C









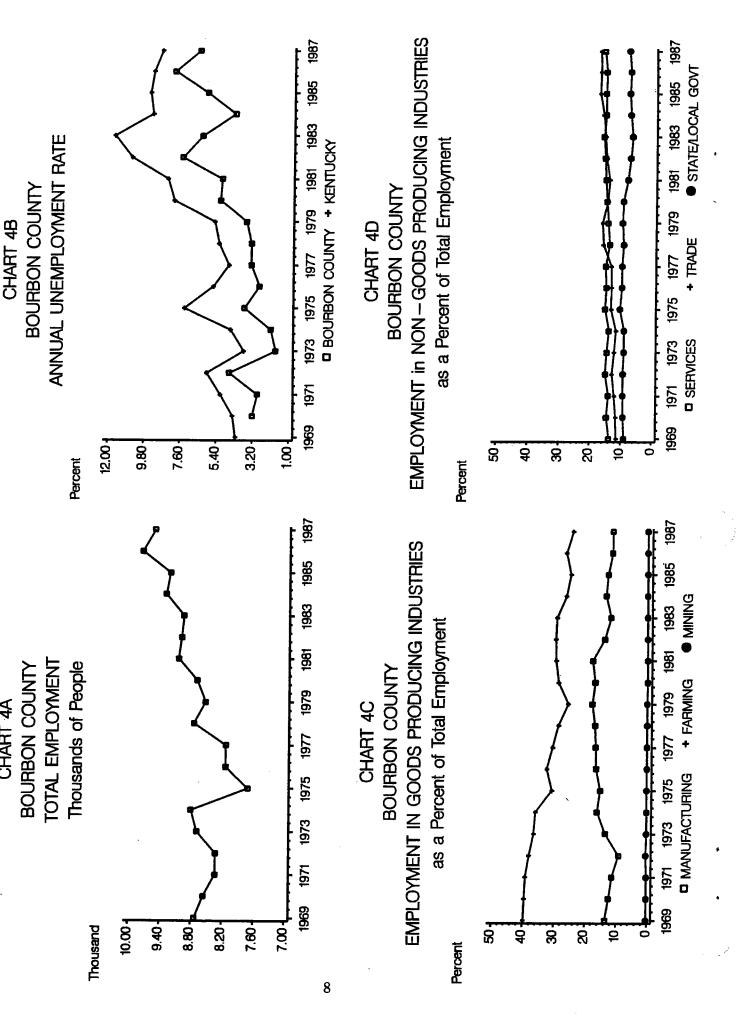


CHART 4A

1987 1987 1985 1985 1983 as a Percent of Kentucky Population BOURBON COUNTY + KENTUCKY as a Percent of Total Population POPULATION 60 AND OVER 1981 1981 **BOURBON COUNTY** BOURBON COUNTY 1979 **POPULATION** 1977 1979 CHART 5B CHART 5D 1977 1975 1975 1973 1973 1971 1971 1969 Percent 0.580 1 0.510 0.566 0.552 0.538 0.524 19:00 14.00 18.00 16.00 15.00 17.00 Percent 1987 1987 1985 1985 1979 1981 1983 1983 ■ BOURBON COUNTY + KENTUCKY as a Percent of Total Population POPULATION 5 AND UNDER Thousands of People BOURBON COUNTY **BOURBON COUNTY** 1979 **POPULATION** CHART 5C 1977 1973 1975 1977 1975 1973 1971 197 1969 19.504 18.78 7.00-19.02 18.54 18.30 19.26 1.00 10.20 9.40 8.60 7.80 Percent

CHART 5A

PERSONAL INCOME In Constant 1988 Dollars

| Year | County Personal Income (M\$) | Percent of Kentucky (%) | Per Capita Personal Income (\$) | Percent of Kentucky (%) |
|------|------------------------------|----------------------------------|--|----------------------------------|
| 1969 | 187 | 0.66 | 10,163 | 114.4 |
| 1970 | 185 | 0.63 | 9,980 | 109.5 |
| 1971 | 185 | 0.60 | 9,857 | 106.5 |
| 1972 | 200 | 0.61 | 10,698 | 109.8 |
| 1973 | 211 | 0.61 | 11,082 | 107.9 |
| 1974 | 198 | 0.56 | 10,467 | 101.0 |
| 1975 | 195 | 0.55 | 10,282 | 100.2 |
| 1976 | 211 | 0.56 | 11,179 | 104.1 |
| 1977 | 223 | 0.56 | 11,713 | 104.8 |
| 1978 | 263 | 0.63 | 13,667 | 118.2 |
| 1979 | 269 | 0.63 | 14,204 | 120.8 |
| 1980 | 271 | 0.64 | 13,977 | 121.2 |
| 1981 | 273 | 0.63 | 14,133 | 120.6 |
| 1982 | 241 | 0.56 | 12,566 | 108.8 |
| 1983 | 233 | 0.55 | 12,124 | 106.5 |
| 1984 | 258 | 0.58 | 13,367 | 111.5 |
| 1985 | 260 | 0.58 | 13,517 | 112.7 |
| 1986 | 248 | 0.54 | 12,727 | 104.0 |
| 1987 | 256 | 0.55 | 13,266 | 106.1 |

COMPONENTS OF PERSONAL INCOME In Constant 1988 Dollars

| | EARNINGS | | TRA | TRANSFER PAYMENTS | | | INCOME from PROPERTY | | |
|--|---|--|--|--|--|--|--|--|--|
| | Percent of Personal Income | | | Percent of Personal Income | | | | cent of nal Income | |
| Year | M\$ | County | Kentucky | M\$ | County | Kentucky | M\$ | County | Kentucky |
| 1969 1970 1971 1972 1973 1974 1975 1976 1977 1978 1979 1980 | 149 143 142 155 164 149 143 157 165 203 205 204 199 | 77.7 76.8 77.6 78.0 75.5 73.6 74.2 74.0 77.0 76.3 75.2 73.1 | 79.2 77.9 77.0 77.3 76.6 75.5 73.3 73.9 74.6 75.0 74.1 71.1 69.3 | 16 18 19 20 22 24 28 29 30 31 33 34 | 10.4 10.3 10.5 12.3 14.2 13.4 13.1 | 12.9 12.9 13.6 14.4 16.5 16.1 15.3 14.6 15.1 | 23 23 24 24 24 24 26 29 31 33 34 | 12.7 12.8 12.2 11.5 12.2 12.2 12.4 12.9 11.7 | 10.2 10.1 9.7 9.7 10.1 10.0 10.1 10.4 10.8 |
| 1982 1983 1984 1985 1986 1987 | 165 157 180 182 171 179 | 68.5 67.4 69.7 69.8 69.1 69.9 | 67.5 66.6 67.8 67.2 67.1 67.5 | 35 37 36 36 37 37 | 14.6 15.7 14.0 13.9 | 17.6 18.4 17.3 17.6 | 41 39 42 42 39 40 | 16.9 16.9 16.3 16.3 15.8 | 14.9 15.1 14.9 |

SECTOR EARNINGS as a PERCENT of TOTAL COUNTY EARNINGS and as a PERCENT of KENTUCKY SECTOR EARNINGS

| | MANUFACTURING | | FAI | RMING | MINING | |
|--|--|--|--|--|---|--|
| YEAR | TOTAL | KENTUCKY | TOTAL | KENTUCKY | TOTAL | KENTUCKY |
| 1969 1970 1971 1972 1973 1974 1975 1976 1977 1978 1979 1980 1981 | 16.7 15.2 13.9 11.6 17.1 21.8 18.1 19.8 19.9 16.5 16.3 17.0 16.5 | 0.32 0.27 0.24 0.20 0.29 0.33 0.29 0.32 0.32 0.34 0.33 0.37 | 32.5 29.5 27.2 33.0 31.9 25.9 25.1 26.6 28.6 38.6 38.8 40.9 43.9 | 2.56 2.47 2.23 2.55 2.42 1.70 2.31 2.45 2.43 4.77 4.50 5.97 4.93 | 0.5 0.4 0.4 0.5 0.7 0.8 0.8 0.7 0.5 0.6 0.6 | 0.07 0.05 0.04 0.04 0.05 0.04 0.04 0.04 0.03 0.04 0.04 0.04 |
| 1982 1983 1984 1985 1986 1987 | 17.9 16.5 17.2 16.8 16.3 14.6 | 0.39 0.34 0.39 0.37 0.34 | 33.3 28.2 34.1 32.3 26.4 29.0 | 3.83 7.48 4.10 5.18 4.90 4.74 | 0.6 0.7 0.6 0.7 0.4 0.5 | 0.04 0.05 0.05 0.06 0.04 0.04 |

| | SEI | RVICES | TI | RADE | · - | ERNMENT |
|--------|-------|----------|-------|----------|--|----------|
| YEAR | TOTAL | KENTUCKY | TOTAL | KENTUCKY | TOTAL | KENTUCKY |
| 1969 | 10.5 | 0.38 | 11.6 | 0.35 | 9.9 | 0.51 |
| 1909 | 12.1 | 0.41 | 12.3 | 0.34 | 10.7 | 0.49 |
| | | | | | A CONTRACTOR OF THE CONTRACTOR | |
| 1971 | 12.2 | 0.38 | 12.5 | 0.33 | 10.9 | 0.47 |
| 1972 | 11.0 | 0.36 | 12.2 | 0.34 | 9.9 | 0.45 |
| 1973 | 10.2 | 0.35 | 11.6 | 0.33 | 9.4 | 0.45 |
| 1974 | 10.2 | 0.32 | 12.6 | 0.32 | 10.3 | 0.45 |
| 1975 | 10.7 | 0.31 | 13.2 | 0.31 | 11.2 | 0.44 |
| 1976 | 10.2 | 0.30 | 12.9 | 0.32 | 10.6 | 0.44 |
| 1977 | 9.5 | 0.29 | 11.7 | 0.30 | 10.3 | 0.44 |
| 1978 | 7.3 | 0.28 | 12.0 | 0.39 | 8.3 | 0.44 |
| 1979 | 7.3 | 0.27 | 12.5 | 0.40 | 8.4 | 0.44 |
| 1980 | 7.8 | 0.29 | 11.2 | 0.38 | 7.8 | 0.41 |
| 1981 | 7.9 | 0.30 | 10.6 | 0.39 | 6.9 | 0.39 |
| 1982 | 9.3 | 0.29 | 12.7 | 0.41 | 8.1 | 0.38 |
| 1983 | 10.1 | 0.29 | 13.7 | 0.42 | 8.3 | 0.37 |
| 1984 . | 8.7 | 0.28 | 12.3 | 0.42 | 7.1 | 0.36 |
| 1985 | 9.2 | 0.28 | 12.9 | 0.43 | 7.3 | 0.35 |
| 1986 | 10.5 | 0.27 | 14.3 | 0.45 | 8.1 | 0.36 |
| 1987 | 10.3 | 0.26 | 13.8 | 0.43 | 8.3 | 0.36 |

COUNTY EMPLOYMENT by SECTOR

| | MANUFACT | URING | FARMI | NG | MINING | | |
|------|------------|---------------------|----------------|---------------------|------------|---------------------|--|
| YEAR | EMPLOYMENT | PERCENT OF TOTAL | EMPLOYMENT | PERCENT OF TOTAL | EMPLOYMENT | PERCENT OF TOTAL | |
| 1969 | 1,182 | 13.5 | 3,468 | 39.7 | 26 | 0.3 | |
| 1970 | 1,056 | 12.3 | 3,375 | 39.5 | 19 | 0.2 | |
| 1971 | 944 | 11.3 | 3,260 | 39.1 | 17 | 0.2 | |
| 1972 | 758 | 9.1 | 3,162 | 38.0 | 33 | 0.4 | |
| 1973 | 1,176 | 13.5 | 3,171 | 36.5 | 22 | 0.3 | |
| 1974 | 1,424 | 16.2 | 3,167 | 36.0 | 21 | 0.2 | |
| 1975 | 1,171 | 15.2 | 2,367 | 30.7 | 22 | 0.3 | |
| 1976 | 1,346 | 16.5 | 2,632 | 32.3 | 18 | 0.2 | |
| 1977 | 1,358 | 16.7 | 2,479 | 30.5 | 18 | 0.2 | |
| 1978 | 1,484 | 17.0 | 2,514 | 28.7 | 16 | 0.2 | |
| 1979 | 1,520 | 17.8 | 2,190 | 25.7 | 20 | 0.2 | |
| 1980 | 1,475 | 17.0 | 2,501 | 28.8 | 12 | 0.1 | |
| 1981 | 1,606 | 17.8 | 2 , 675 | 29.6 | 13 | 0.1 | |
| 1982 | 1,264 | 14.1 | 2,674 | 29.8 | 16 | 0.2 | |
| 1983 | 1,078 | 12.0 | 2,629 | 29.4 | 20 | 0.2 | |
| 1984 | 1,268 | 13.6 | 2,453 | 26.4 | 22 | 0.2 | |
| 1985 | 1,200 | 13.0 | 2,306 | 25.0 | 23 | 0.2 | |
| 1986 | 1,135 | 11.6 | 2,586 | 26.5 | 25 | 0.3 | |
| 1987 | 1,097 | 11.5 | 2,321 | 24.4 | 32 | 0.3 | |

| | SERVI | CES | TRAD | E | STATE and GOVERN | |
|----------------------|-------------------------|----------------------|-------------------------|----------------------|---------------------|---------------------|
| YEAR | EMPLOYMENT. | PERCENT OF TOTAL | EMPLOYMENT | PERCENT OF TOTAL | EMPLOYMENT | PERCENT OF TOTAL |
| 1969 1970 1971 | 1,205 1,249 1,168 | 13.8 14.6 | 990 991 | 11.3 11.6 | 770 780 | 8.8 9.1 |
| 1972 1973 | 1,247 1,264 | 14.0 15.0 14.6 | 1,007 1,070 1,055 | 12.1 12.9 12.1 | 770 764 774 | 9.2 9.2 8.9 |
| 1974 | 1,224 | 13.9 | 1,019 | 11.6 | 785 | 8.9 |
| 1975 | 1,169 | 15.2 | 1,020 | 13.2 | 794 | 10.3 |
| 1976 | 1,203 | 14.8 | 1,063 | 13.1 | 783 | 9.6 |
| 1977 | 1,217 | 15.0 | 1,073 | 13.2 | 780 | 9.6 |
| 1978 | 1,202 | 13.7 | 1,378 | 15.8 | 796 | 9.1 |
| 1979 | 1,222 | 14.3 | 1,375 | 16.1 | 817 | 9.6 |
| 1980 | 1,281 | 14.7 | 1,258 | 14.5 | 810 | 9.3 |
| 1981 | 1,375 | 15.2 | 1,261 | 13.9 | 720 | 8.0 |
| 1982 | 1,387 | 15.4 | 1,347 | 15.0 | 646 | 7.2 |
| 1983 | 1,422 | 15.9 | 1,377 | 15.4 | 589 | 6.6 |
| 1984 | 1,417 | 15.3 | 1,483 | 16.0 | 669 | 7.2 |
| 1985 | 1,404 | 15.2 | 1,572 | 17.1 | 687 | 7.5 |
| 1986 | 1,467 | 15.1 | 1,640 | 16.8 | 699 | 7.2 |
| 1987 | 1,478 | 15.5 | 1,598 | 16.8 | 716 | 7.5 |

EMPLOYMENT STATISTICS

| | | AVERAGE | EARNINGS | UNEMPLOYMENT RATE | | |
|------|------------------|----------|----------|-------------------|----------|--|
| YEAR | TOTAL EMPLOYMENT | COUNTY | KENTUCKY | COUNTY | KENTUCKY | |
| 1969 | 8,725 | \$12,608 | \$17,440 | • | 4.2 | |
| 1970 | 8,554 | \$12,198 | \$17,811 | 3.2 | 4.4 | |
| 1971 | 8,331 | \$12,236 | \$18,166 | 2.9 | 5.1 | |
| 1972 | 8,323 | \$13,586 | \$18,970 | 4.6 | 6.0 | |
| 1973 | 8,685 | \$14,164 | \$19,232 | 1.8 | 3.7 | |
| 1974 | 8,798 | \$12,466 | \$19,008 | 2.1 | 4.5 | |
| 1975 | 7,711 | \$13,659 | \$18,976 | 3.7 | 7.3 | |
| 1976 | 8,138 | \$14,292 | \$19,563 | 2.8 | 5.6 | |
| 1977 | 8,131 | \$15,384 | \$20,031 | 3.3 | 4.7 | |
| 1978 | 8,746 | \$18,852 | \$20,121 | 3.3 | 5.3 | |
| 1979 | 8,526 | \$19,404 | \$20,110 | 3.6 | 5.5 | |
| 1980 | 8,688 | \$19,171 | \$19,439 | 5.2 | 8.0 | |
| 1981 | 9,043 | \$19,108 | \$19,286 | 5.1 | 8.4 | |
| 1982 | 8,988 | \$16,444 | \$18,931 | 7.5 | 10.6 | |
| 1983 | 8,947 | \$15,771 | \$18,358 | 6.3 | 11.6 | |
| 1984 | 9,290 | \$17,900 | \$19,080 | 4.3 | 9.3 | |
| 1985 | 9,211 | \$17,706 | \$18,676 | 6.0 | 9.5 | |
| 1986 | 9,746 | \$15,736 | \$18,627 | 8.0 | 9.3 | |
| 1987 | 9,505 | \$16,567 | \$18,636 | 6.5 | 8.8 | |

POPULATION STATISTICS

PERCENT UNDER AGE 6 PERCENT AGE 60+

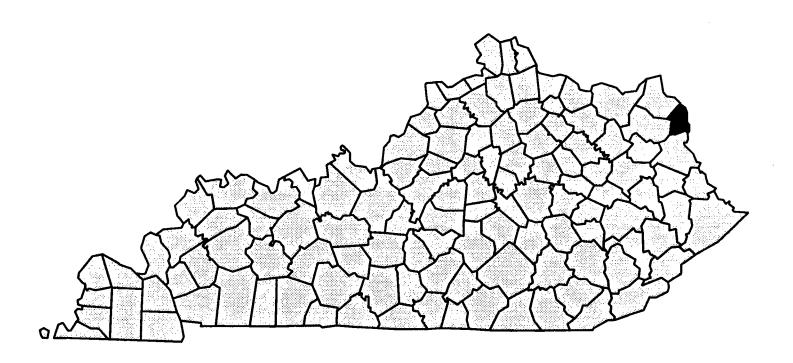
| | | | PERCENT U | NDER AGE 6 | PERCENT | AGE 60+ |
|-------------------|------------|---------|-----------|------------|---------|----------|
| YEAR | POPULATION | % OF KY | COUNTY | KENTUCKY | COUNTY | KENTUCKY |
| 1969 | 18,400 | 0.58 | • | • | • | • |
| 1970 | 18,500 | 0.57 | 10.2 | 10.3 | 16.3 | 14.8 |
| 1971 | 18,700 | 0.57 | 9.5 | 9.6 | 16.3 | |
| 1972 ⁻ | 18,700 | 0.56 | 8.9 | 9.1 | 16.6 | |
| 1973 | 19,000 | 0.56 | 8.5 | 8.8 | 16.6 | 15.2 |
| 1974 | 18,900 | 0.55 | 8.4 | 8.6 | 17.0 | 15.3 |
| 1975 | 19,000 | 0.55 | 8.2 | 8.4 | 17.2 | 15.4 |
| 1976 | 18,900 | 0.54 | 8.1 | 8.2 | 17.7 | 15.5 |
| 1977 | 19,000 | 0.53 | 8.2 | 8.4 | 17.8 | 15.5 |
| 1978 | 19,300 | 0.53 | 8.2 | 8.5 | 17.8 | 15.6 |
| 1979 | 18,900 | 0.52 | 8.5 | 8.7 | 18.3 | 15.8 |
| 1980 | 19,400 | 0.53 | 9.0 | 9.2 | 17.6 | 15.4 |
| 1981 | 19,300 | 0.53 | 8.7 | 9.3 | 17.7 | 15.5 |
| 1982 | 19,200 | 0.52 | 8.7 | 9.2 | 17.8 | 15.7 |
| 1983 | 19,300 | 0.52 | 8.4 | 9.2 | 18.0 | |
| 1984 | 19,300 | 0.52 | 8.1 | 9.0 | 18.3 | 16.1 |
| 1985 | 19,300 | 0.52 | 7.8 | 8.9 | 18.4 | 16.3 |
| 1986 | 19,500 | 0.52 | 7.6 | 8.6 | 18.5 | 16.5 |
| 1987 | 19,300 | 0.52 | • | • | • | • |

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ECONOMIC TRENDS IN KENTUCKY COUNTIES 1969-1987

BOYD COUNTY



Prepared by Virginia Wilson Donna A. Cantrell

RESEARCH MEMORANDUM 438 Legislative Research Commission Frankfort, Kentucky February, 1990

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ECONOMIC TRENDS IN KENTUCKY COUNTIES 1969-1987

BOYD COUNTY

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FOREWORD

This publication is one of a set of 120, highlighting economic trends in each county in Kentucky from 1969-1987. This effort is part of the ongoing activities sponsored by the Legislative Research Commission to provide a long-term perspective on issues for decision makers. The economies of individual counties do not always parallel overall state trends. This set of publications is an attempt to look at the economic trends in each county over time and to point out where the economies of individual counties may be performing differently from the economy of the state as a whole.

This publication was prepared by Virginia Wilson and Donna Cantrell. Susan Dance assisted in production of the manuscript and Charles Bush edited the report. The assistance of Carol Straus from the Center for Business and Economic Research at the University of Kentucky in deciphering data is gratefully acknowledged.

Vic Hellard, Jr. Director

The Capitol Frankfort February, 1990

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SUMMARY

The Boyd County economy, as measured by personal income, grew strongly in the 1970's but declined slightly in the 1980's. Boyd County increased its share of Kentucky personal income in the mid-1970's and decreased its share in the 1980's. However, both per capita personal income and average earnings per job were significantly above those of the state. Boyd County generates a smaller percent of personal income from earnings and a larger percent from transfer payments than does the state as a whole.

The county economy was heavily impacted by the manufacturing sector. While the manufacturing sector was the primary source of earnings in Boyd County, earnings and employment from this sector declined substantially. The county's share of earnings and employment from mining and farming were minimal through most of the period. However, mining employment increased significantly in 1987.

The non-goods-producing sectors of services and state and local government experienced growth at the county level, while the trade sector declined. At the state level, the services and trade sector increased, while state and local government was constant.

Goods-producing industries, especially durable manufacturing, tend to be very sensitive to economic fluctuations and market competition. The non-goods-producing sectors tend to be more resilient during periods of economic decline. The long-term economic outlook at the state and national levels is for continued increase in these sectors, especially the service sector. Future economic growth in Boyd County would be enhanced by growth in these sectors.

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INTRODUCTION

This is one of a series of reports called <u>Economic Trends in Kentucky Counties</u>. The purpose of this series is to describe the economic structure of Kentucky counties and to assess their economic performance relative to their own history and relative to the Kentucky economy. Information on the structure and patterns of change in county economies and an understanding of their relationship to the Kentucky economy can help in making policy decisions that are intended to shape Kentucky's economic future.

When assessing any economy there are several pertinent questions which may be addressed. The first concerns changes in the absolute size of the economy over time. Here the relevant comparison is between the Boyd County economy and its own history. Since most economic variables are given in dollars and since inflation causes the value of a dollar to vary over time, all dollar values in this report are presented in constant 1988 dollars. This allows analysis of real changes over time by controlling for the effects of inflation.

A second question concerns the structure and nature of the Boyd County economy. The structure of an economy refers to the relative share contributed by the various segments of the economy, while the nature deals with how this share has changed over time.

A third question concerns the performance of the Boyd County economy when compared to the Kentucky economy. For example, if a county has a higher proportion of earnings or employment in a particular sector it would indicate a specialization in that sector. Differences in economic structure may explain variations in relative economic well being between a county and the state as a whole.

Economic data for counties are usually published after a lag of two years. Therefore, most data in this report cover the period 1969 to 1987. All data for this report was obtained from the Kentucky Economic Information System, an on-line database maintained by the University of Kentucky Center for Business and Economic Development.

There are certain caveats which should be remembered when analyzing data. First, it is a common and useful approach to evaluate the percentage an economic sector contributes to the total economy. However, one must remember that a sector's percentage contribution may decline even when its absolute value is increasing, if another sector's contribution is growing at a faster rate. Secondly, when reviewing data in graphical analyses, the scales used to present data should be noted. In this report most graphs are presented with the narrowest scale which will cover all data points. This can accentuate visual patterns over time even when absolute changes are relatively small.

^{*}For an analysis of economic trends in Kentucky, see Virginia Wilson, Patterns of Growth and Decline in the Kentucky Economy 1969-1988, Research Memorandum 437, Legislative Research Commission, November 1989.

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ECONOMIC TRENDS IN BOYD COUNTY

The following analysis includes a brief description of the county economy and is accompanied by graphical illustrations. Data tables are also included at the end of this report. Three principal components of the Boyd County economy are analyzed. They are:

- 1. Personal Income
- 2. Earnings
- 3. Employment

Also, because coal production has been an important component in the Kentucky economy and in many local economies, the coal sector is analyzed in counties which have a history of coal production.

Personal Income

Personal income is often used as a measure of the economic activity in an area. Personal income is the sum of all the dollar income received by individuals in an area from any legal source. Personal income data is published by the Bureau of Economic Analysis (BEA) for most major geographic regions, including states, counties, and major cities.

In general, income can be obtained in three ways. First, it can be earned by the work of an individual. This type of income includes wage and salary income and proprietors' earnings. Second, income can be earned by property. Included are earnings from rents, dividends, and interest. Finally, income can be received as a gift or an entitlement. This type of income constitutes the component of personal income called transfer payments. Included in this component is income from sources such as retirement benefits, unemployment benefits, food stamps, and medical programs such as Medicare and Medicaid.

The Boyd County economy has experienced both growth and decline during the data period. As can be seen in Chart 1A, the size of the Boyd County economy, as measured by real personal income, increased substantially, from \$521 million in 1969 to a high of \$794 million in 1979. There was a subsequent decline in the 1980's to \$698 million in 1987, after adjusting for inflation. Chart 1B shows Boyd County total personal income as a percent of Kentucky total personal income. Except for a cyclical fluctuation in the 1970's, Boyd County's share of Kentucky personal income decreased.

A similar pattern emerges from an examination of per capita personal income (Charts 1C and 1D). Per capita personal income is simply the total personal income of an area divided by its population. Per capita personal income is often used as a measure of the economic well-being of the residents of an area. Boyd County real per capita income increased in the 1970's, then declined in the 1980's to a level of \$13,217 in 1987. While Boyd County's per

capita personal income is high relative to the state's at 105.7 percent of Kentucky per capita personal income, this percentage was volatile throughout the period and declined substantially after 1979.

A better understanding of the nature of economic activity can be gleaned from an examination of the relative contribution of the components of personal income and how their shares have changed over time. This information is illustrated in Charts 2A-2D. Total earnings increased from \$409 million in 1969 to a high of \$598 million in 1979, then declined to \$445 million in 1987 (in constant 1988 dollars). Earnings as a percent of personal income declined over the period. Earnings accounted for 63.8 percent of Boyd County's total personal income in 1987, compared to Kentucky's 67.5 percent share.

Transfer payments contributed \$55 million to total personal income in 1969 and \$132 million in 1987. Until 1982, transfer payments contributed a smaller percentage of personal income in Boyd County than in Kentucky. However, this pattern reversed in 1983. In 1987, 18.9 percent of Boyd County personal income was derived from transfer payments, compared to 17.2 percent for the state.

Income from property in Boyd County grew at a stable rate through the time period. Income from property totalled \$58 million in 1969 and increased to \$121 million in 1987.

Earnings

Earnings are the component of personal income reflecting payments to individuals in return for labor. Earnings include both wages and salaries and proprietor's income. Earnings from goods-producing sectors are presented in Chart 3A. In 1969, Boyd County received 44.0 percent of its earnings from manufacturing. This percentage decreased to 32.4 percent in 1987. This pattern of decline in the percent of total earnings from manufacturing parallels that of the state. Earnings from farming and mining were minimal through most of this period. However, the share of earnings from mining increased in 1987, possibly indicating the emergence of this sector in the county economy.

Earnings from non-goods-producing industries paralleled state trends (Chart 3B). The percent of total earnings from services increased from 9.5 percent in 1969 to 19.4 percent in 1987. The percentage of earnings from the trade sector declined in 1971, then remained relatively stable and accounted for 14.7 percent in 1987. The share from state and local government increased slightly and was 7.2 percent in 1987.

Average earnings per job (adjusted for inflation) for Boyd County and Kentucky are shown in Chart 3D. In Kentucky, average earnings per job reached a high of \$20,121 per person in 1978. Since that time average earnings per job have declined and in 1987 they were \$18,636 per person. Similarly, in Boyd County earnings per job peaked in 1979 at an average of \$26,131. County average earnings decreased to a level of \$23,005 in 1987, well above the Kentucky average.

Employment

Employment is considered to be any activity for which one receives financial remuneration in the form of wages or profits. Total employment in Boyd County was volatile during the data period. In 1969, total employment stood at 25,181 people. Employment increased to 30,938 people in 1979 then declined to 26,890 by 1987.

The unemployment rate, often used as an indicator of economic well-being, is the ratio of unemployed to the total civilian labor force. Unemployment is described as a condition of being out of work while actively seeking employment within the last thirty days. The civilian labor force is described as the proportion of population age 16 or older employed or actively seeking employment. Annual unemployment rates for Kentucky and Boyd County are presented in Chart 4B. Boyd County unemployment rates were volatile and since 1980 exceeded corresponding rates for the state. In 1987, the Boyd County unemployment rate was 10.4 percent, compared to 8.8 for the state.

Another employment concept includes the discouraged worker. Discouraged workers are persons who want jobs but made no attempt to find work in the last thirty days because they believe they could not find it. These individuals are not included when calculating official unemployment rates. The Cabinet for Human Resources does not estimate discouraged workers by county. However, preliminary research by the Cabinet indicates that the inclusion of discouraged workers in the civilian labor force estimate would increase the unemployment rate by approximately 4 percent for the state. This figure would vary by county depending on the labor market in a county or within commuting distance.

Employment in the goods-producing industries is illustrated in Chart 4C. The percent of Boyd County total employment in manufacturing decreased over the time period. Again, this trend parallels that of the state. Manufacturing accounted for 31.6 percent of total employment in 1969. This share decreased to 18.9 percent in 1987. The farm and mine sectors historically employed less than one percent of the total workforce. However, in 1987, mining employment increased slightly, mirroring the slight increase in earnings from mining.

Boyd County employment in the non-goods-producing industries parallels state trends (Chart 4D). Employment in the service sector as a percent of total employment increased from 15.2 percent in 1969 to 23.5 percent in 1987. While the percent of employment from trade declined in the 1970's, employment in this sector increased in the 1980's to 24.2 percent in 1987. The percent of employment in state and local government remained relatively stable and accounted for 8.3 percent in 1987. These county employment patterns were similar to state patterns in the non-goods-producing sectors.

Population

The census conducted each decade counts the actual population in an area. Population is then statistically estimated during intervening years.

The demographic composition of this population growth has important implications for the future demand for goods and services, and ultimately, the economic structure of Boyd County.

Population trends for Boyd County reflect the cycles of economic activity in the area. The Boyd County population grew from 52,300 in 1969 to 55,600 in 1979. Population then declined to 52,800 in 1987 (Chart 5A). In 1986, 7.5 percent of Boyd County's population was under six years of age, compared to 8.6 percent for the state. In the same year, 19.2 percent of the Boyd County population were 60 years of age and over, while 16.5 percent of all Kentucky residents fell in this age group.

Coal

The coal sector provides significant income and employment to the Kentucky economy. This sector also contributes directly to the Commonwealth's General Fund revenues through severance tax collections. While mining employment and earnings are a very small percent of their respective totals for Boyd County, coal production has been a nontrivial sector of the county economy.

Boyd County coal production patterns are presented in Chart 6A. Coal production is estimated by the Energy Information Administration of the U.S. Department of Energy. Estimates of production are calculated from a sample of coal shipments from each county. Coal production increased significantly between 1976 and 1978. This production increase was likely stimulated by changes in international energy markets. Specifically, a sharp increase in the price of oil resulted in increased demand for coal by utilities and resulted in increases in the price of coal. However, when oil prices declined, coal production also declined. In 1986, 503 thousand tons of coal was mined in Boyd County.

Employment in the mining sector, which includes coal and other forms of mining, is illustrated in Chart 6B. In 1986 there were only 112 people employed in mining in Boyd County. In 1987, mining provided 559 jobs in the county. The large increase in employment from 1986 to 1987 illustrates the volatile nature of coal production and its impact on local economies.

The average value per ton for coal is illustrated in Chart 6C. Similar to patterns for the national coal market, average value per ton increased in the mid-1970's, then declined during the 1980's.

Coal severance tax receipts are presented in Chart 6D. The Kentucky Revenue Cabinet collects severance taxes on processed coal. Receipts are then allocated to counties, based on the value of the coal mined in the county and the value attributed to any processing done in the county. Therefore, trends in severance tax collections may not exactly parallel those of the coal production figures in Chart 6A. Severance tax collections were cyclical over the period. In 1986, coal severance tax collections allocated to Boyd County totalled \$1.8 million.

CHART 1A BOYD COUNTY REAL PERSONAL INCOME Millions of 1988 dollars

as a Percent of Kentucky Personal Income

PERSONAL INCOME

BOYD COUNTY

CHART 1B

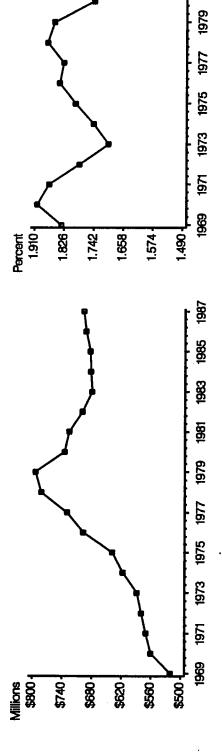


CHART 1D
BOYD COUNTY
PER CAPITA PERSONAL INCOME
as a Percent of Kentucky Per Capita Personal Income

PER CAPITA PERSONAL INCOME

BOYD COUNTY

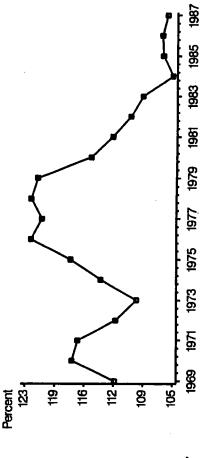
CHART 1C

in Constant 1988 Dollars

1985

1883

1<u>98</u>



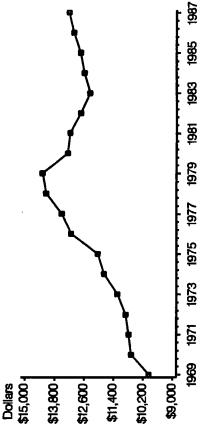


CHART 2A
BOYD COUNTY
REAL TOTAL EARNINGS
Millions of 1988 dollars

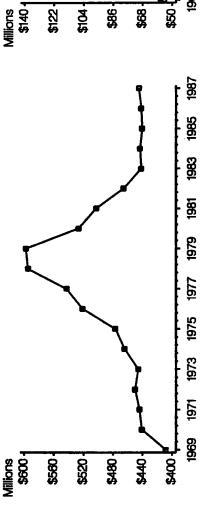


CHART 2C
BOYD COUNTY
TOTAL EARNINGS
as a Percent of Personal Income

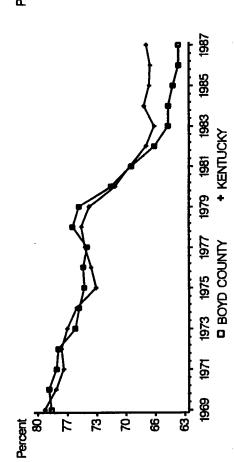


CHART 2B
BOYD COUNTY
TRANSFER PAYMENTS and INCOME FROM PROPERTY
Millions of 1988 Dollars

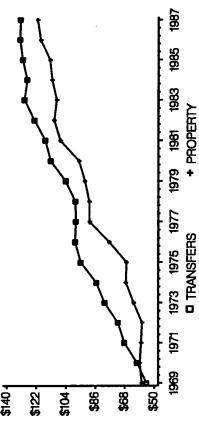
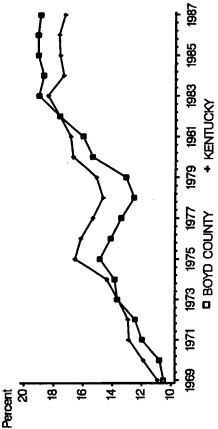


CHART 2D
BOYD COUNTY
TRANSFER PAYMENTS
as a Percent of Personal Income

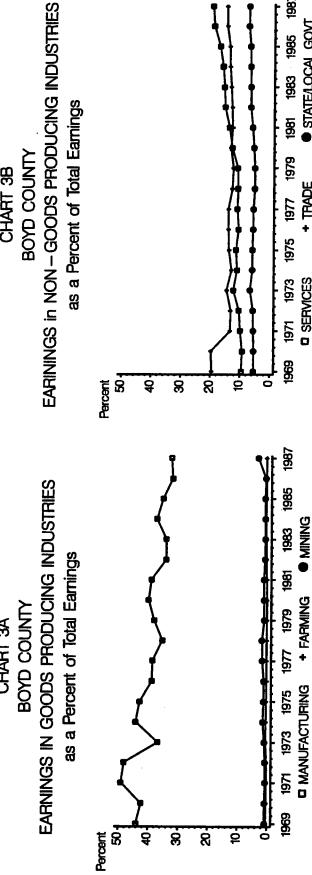


BOYD COUNTY CHART 3A

as a Percent of Total Earnings

BOYD COUNTY

CHART 3B



EARNINGS in GOODS PRODUCING INDUSTRIES as a Percent of Kentucky Industries BOYD COUNTY

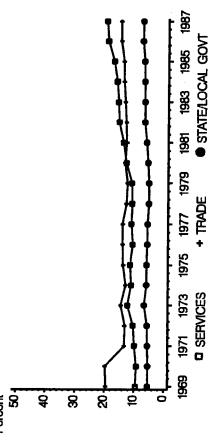
5.00+

Percent

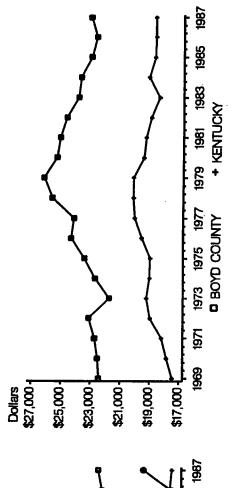
<u>4</u>

300

CHART 3C



AVERAGE EARNINGS PER JOB in Constant 1988 Dollars BOYD COUNTY CHART 3D



● MINING 1983

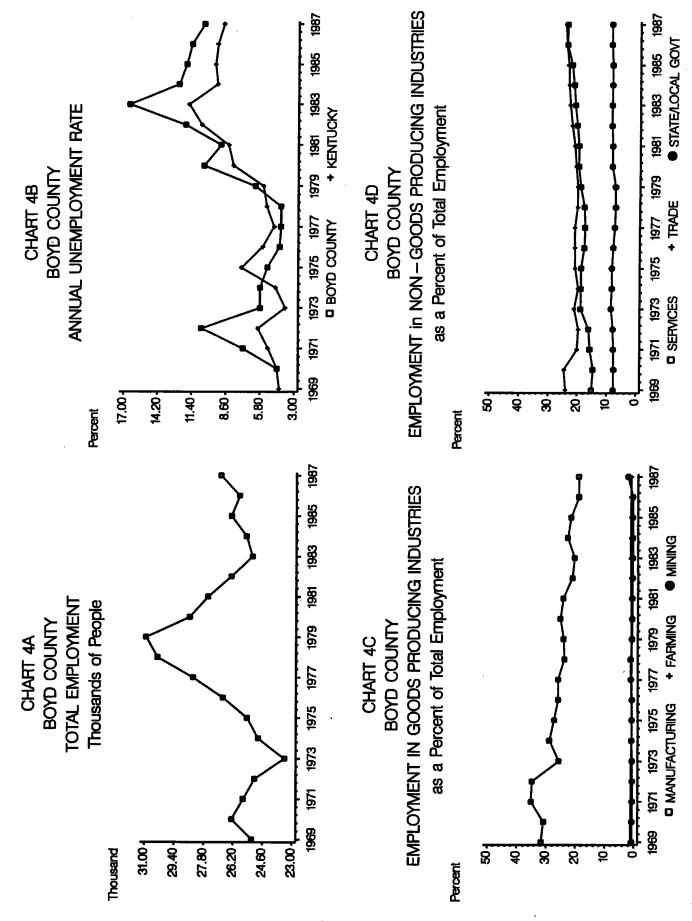
+ FARMING

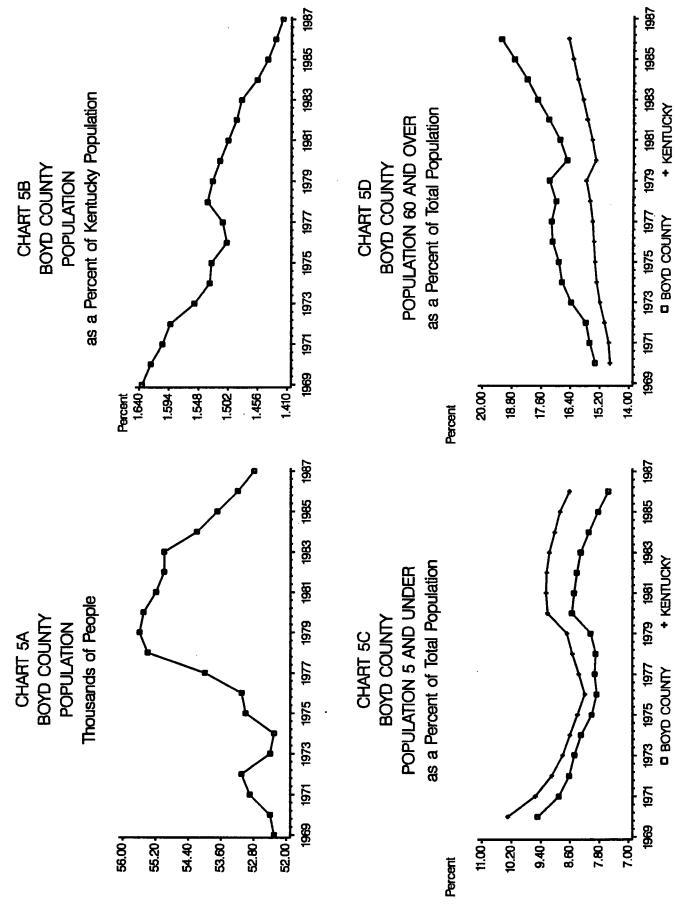
MANUFACTURING 1973

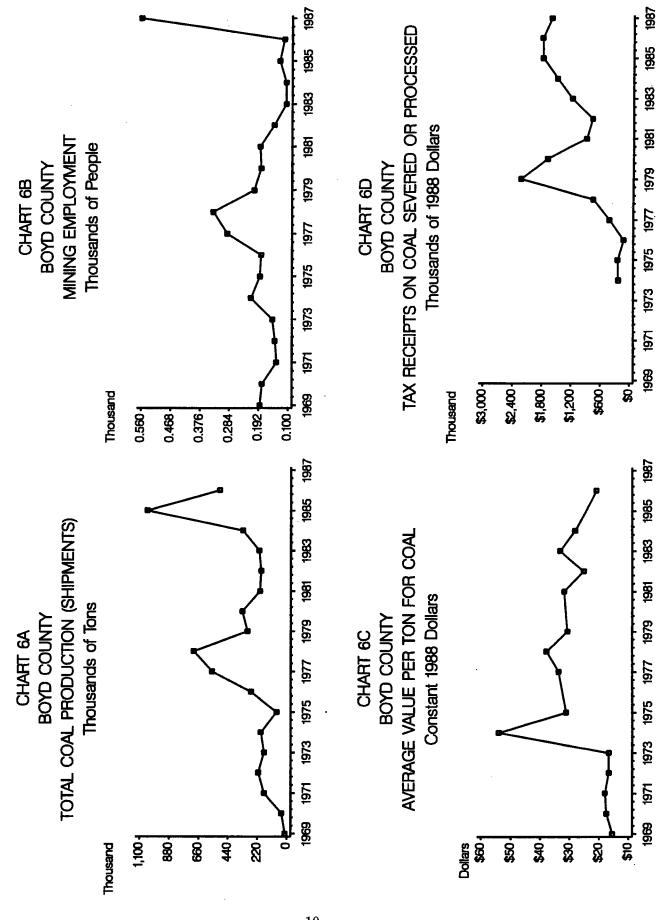
0.00

8

28







PERSONAL INCOME In Millions of 1988 Dollars

| Year | County Personal Income (M\$) | Percent of Kentucky (%) | Per Capita Personal Income (\$) | Percent of Kentucky (%) |
|--|---|--|--|--|
| 1969 1970 1971 1972 1973 1974 1975 1976 1977 1978 1979 1980 1981 1982 1983 1984 1985 | 521 560 570 580 589 617 639 697 730 783 794 727 700 680 683 684 693 | 1.83 1.90 1.87 1.78 1.70 1.74 1.79 1.84 1.83 1.87 1.85 1.64 1.69 1.64 1.61 1.53 1.53 | 9,957 10,688 10,789 10,909 11,238 11,793 12,055 13,122 13,516 14,137 14,281 13,265 13,170 12,734 12,370 12,597 12,750 13,017 | 112.1 117.3 116.6 112.0 109.4 113.8 117.5 122.2 120.9 122.2 121.4 115.0 112.4 110.2 108.7 105.1 106.3 106.4 |
| 1987 | 698 | 1.50 | 13,217 | 105.7 |

COMPONENTS OF PERSONAL INCOME In Constant 1988 Dollars

| | | EARNI | NGS | TRAI | NSFER P | AYMENTS | INCOM | E from 1 | PROPERTY |
|------|-----|--------|-----------------------|------|---------|--------------------|-------|----------|-----------------------|
| | | | cent of nal Income | | | cent of nal Income | | | cent of nal Income |
| Year | M\$ | County | Kentucky | M\$ | County | Kentucky | M\$ | County | Kentucky |
| 1969 | 409 | 78.4 | 79.2 | 55 | 10.5 | 10.9 | 58 | 11.1 | 9.9 |
| 1970 | 441 | 78.7 | 77.9 | 60 | 10.8 | | 59 | | |
| 1971 | 444 | 77.9 | 77.0 | 68 | 12.0 | | 58 | | |
| 1972 | 450 | 77.6 | 77.3 | 72 | 12.5 | | | 9.9 | |
| 1973 | 446 | 75.7 | 76.6 | 80 | 13.7 | | 63 | | 9.7 |
| 1974 | 464 | 75.3 | 75.5 | 85 | 13.8 | | 67 | 10.9 | |
| 1975 | 477 | 74.7 | 73.3 | 95 | 14.9 | 16.5 | 67 | | |
| 1976 | 521 | 74.8 | 73.9 | 98 | 14.1 | 16.1 | 78 | | 10.0 |
| 1977 | 543 | 74.3 | 74.6 | 98 | 13.4 | 15.3 | 89 | 12.3 | |
| 1978 | 595 | 76.0 | 75.0 | 98 | 12.5 | 14.6 | 90 | 11.5 | 10.4 |
| 1979 | 598 | 75.3 | 74.1 | 104 | 13.1 | 15.1 | 92 | 11.6 | |
| 1980 | 527 | 71.6 | 71.1 | 113 | 15.4 | | 96 | 13.0 | |
| 1981 | 503 | 69.2 | 69.3 | 116 | 16.0 | 16.8 | 107 | 14.8 | 13.8 |
| 1982 | 466 | 66.5 | 67.5 | 123 | 17.6 | 17.6 | 111 | 15.9 | |
| 1983 | 442 | 64.9 | 66.6 | 129 | 19.0 | 18.4 | 109 | 16.1 | 15.1 |
| 1984 | 444 | 64.9 | 67.8 | 127 | 18.7 | | 112 | 16.4 | |
| 1985 | 441 | 64.4 | 67.2 | 130 | 19.0 | | 113 | | |
| 1986 | 442 | 63.8 | 67.1 | 132 | 19.0 | | 119 | | |
| 1987 | 445 | 63.8 | 67.5 | 132 | 18.9 | 17.2 | 121 | | 15.3 |

SECTOR EARNINGS as a PERCENT of TOTAL COUNTY EARNINGS and as a PERCENT of KENTUCKY SECTOR EARNINGS

| | MANUF | MANUFACTURING FARMING | | RMING | G MINING | | |
|------|-------|-----------------------|-------|----------|----------|----------|--|
| YEAR | TOTAL | KENTUCKY | TOTAL | KENTUCKY | TOTAL | KENTUCKY | |
| 1969 | 44.0 | 4.37 | 0.4 | 0.15 | 0.8 | 0.59 | |
| 1970 | 42.3 | 4.27 | 0.3 | 0.14 | 0.8 | 0.46 | |
| 1971 | 49.1 | 4.77 | 0.2 | 0.09 | 0.6 | 0.33 | |
| 1972 | 48.1 | 4.21 | 0.2 | 0.07 | 0.7 | 0.35 | |
| 1973 | 36.8 | 2.61 | 0.5 | 0.16 | 0.9 | 0.37 | |
| 1974 | 44.2 | 3.46 | 0.4 | 0.13 | 1.4 | 0.43 | |
| 1975 | 42.8 | 3.91 | 0.3 | 0.15 | 1.1 | 0.31 | |
| 1976 | 38.8 | 3.50 | 0.2 | 0.08 | 1.1 | 0.33 | |
| 1977 | 38.6 | 3.41 | 0.2 | 0.09 | 1.6 | 0.46 | |
| 1978 | 35.3 | 3.38 | 0.1 | 0.07 | 1.7 | 0.53 | |
| 1979 | 38.0 | 3.73 | 0.1 | 0.07 | 1.0 | 0.33 | |
| 1980 | 40.0 | 3.77 | 0.1 | 0.07 | 1.1 | 0.32 | |
| 1981 | 39.0 | 3.57 | 0.2 | 0.07 | 1.1 | 0.31 | |
| 1982 | 34.1 | 3.22 | 0.3 | 0.14 | 0.8 | 0.22 | |
| 1983 | 34.1 | 2.97 | 0.3 | 0.39 | 0.7 | 0.22 | |
| 1984 | 37.3 | 3.04 | 0.5 | 0.21 | 0.7 | 0.20 | |
| 1985 | 35.2 | 2.90 | 0.4 | 0.24 | 0.8 | 0.24 | |
| 1986 | 32.0 | 2.57 | 0.4 | 0.25 | 0.5 | 0.18 | |
| 1987 | 32.4 | 2.69 | 0.3 | 0.19 | 3.2 | 1.16 | |

| SERVICES | | TRADE | | STATE and LOCAL GOVERNMENT | | |
|----------|-------|----------|-------|-------------------------------|-------|----------|
| YEAR | TOTAL | KENTUCKY | TOTAL | KENTUCKY | TOTAL | KENTUCKY |
| 1969 | 9.5 | 1.74 | 19.5 | 3.00 | 5.4 | 1.44 |
| 1970 | 9.2 | 1.74 | 19.7 | 3.07 | 5.3 | 1.39 |
| 1971 | 9.9 | 1.77 | 13.4 | 2.01 | 5.5 | 1.34 |
| 1972 | 10.4 | 1.76 | 13.2 | 1.86 | 5.6 | 1.31 |
| 1973 | 12.3 | 1.74 | 14.5 | 1.70 | 6.6 | 1.31 |
| 1974 | 11.0 | 1.77 | 12.9 | 1.69 | 5.9 | 1.30 |
| 1975 | 11.4 | 1.86 | 13.8 | 1.85 | 5.8 | 1.30 |
| 1976 | 10.6 | 1.76 | 14.0 | 1.93 | 5.6 | 1.30 |
| 1977 | 11.0 | 1.85 | 14.0 | 2.00 | 5.5 | 1.30 |
| 1978 | 10.8 | 1.95 | 12.7 | 1.92 | 5.1 | 1.30 |
| 1979 | 10.9 | 1.99 | 12.4 | 1.93 | 5.1 | 1.29 |
| 1980 | 12.8 | 2.04 | 13.2 | 1.96 | 5.4 | 1.23 |
| 1981 | 13.8 | 2.08 | 12.7 | 1.87 | 5.9 | 1.31 |
| 1982 | 15.3 | 2.12 | 12.9 | 1.81 | 6.6 | 1.35 |
| 1983 | 15.5 | 1.88 | 13.2 | 1.70 | 6.5 | 1.23 |
| 1984 | 16.0 | 1.85 | 13.7 | 1.72 | 6.6 | 1.22 |
| 1985 | 17.0 | 1.88 | 13.8 | 1.70 | 6.8 | 1.21 |
| 1986 | 19.0 | 1.87 | 14.6 | 1.74 | 7.3 | 1.21 |
| 1987 | 19.4 | 1.90 | 14.7 | 1.80 | 7.2 | 1.23 |

COUNTY EMPLOYMENT by SECTOR

| | MANUFACT | MANUFACTURING | | FARMING | | NG |
|--|--|--|--|---|---|---|
| YEAR | EMPLOYMENT | PERCENT OF TOTAL | EMPLOYMENT | PERCENT OF TOTAL | EMPLOYMENT | PERCENT OF TOTAL |
| 1969 1970 1971 1972 1973 1974 1975 1976 1977 1978 1979 1980 1981 | 7,961 8,098 8,989 8,682 6,018 7,180 6,941 6,931 7,370 7,207 7,441 7,194 6,661 5,523 | 31.6 30.8 35.1 34.7 25.7 28.9 27.3 25.9 26.0 23.8 24.1 25.2 24.1 | 328 300 270 242 220 201 193 228 240 253 250 263 278 284 | 1.3 1.1 1.1 1.0 0.9 0.8 0.9 0.8 0.9 | 188 181 136 141 149 216 188 184 290 334 206 184 187 | 0.7 0.7 0.5 0.6 0.9 0.7 1.0 1.1 0.7 0.6 0.7 |
| 1983 1984 1985 1986 1987 | 5,086 5,765 5,640 4,852 5,080 | 20.2 22.6 21.4 18.7 18.9 | 295 283 274 282 271 | 1.2 1.1 1.0 1.1 | 106 106 126 112 559 | 0.4 0.4 0.5 0.4 2.1 |

| | SERVI | CES | TRAD | E | STATE and GOVERN | |
|------|------------|---------------------|------------|---------------------|---------------------|---------------------|
| YEAR | EMPLOYMENT | PERCENT OF TOTAL | EMPLOYMENT | PERCENT OF TOTAL | EMPLOYMENT | PERCENT OF TOTAL |
| 1969 | 3,816 | 15.2 | 6,053 | 24.0 | 1,914 | 7.6 |
| 1970 | 3,839 | 14.6 | 6,433 | 24.5 | 1,949 | 7.4 |
| 1971 | 4,036 | 15.7 | 5,133 | 20.0 | 1,953 | 7.6 |
| 1972 | 4,051 | 16.2 | 4,900 | 19.6 | 1,937 | 7.7 |
| 1973 | 4,414 | 18.9 | 4,908 | 21.0 | 1,972 | 8.4 |
| 1974 | 4,659 | 18.8 | 4,892 | 19.7 | 2,023 | 8.1 |
| 1975 | 4,762 | 18.7 | 5,281 | 20.8 | 2,069 | 8.1 |
| 1976 | 4,718 | 17.6 | 5,572 | 20.8 | 2,058 | 7.7 |
| 1977 | 4,943 | 17.4 | 5,919 | 20.9 | 2,043 | 7.2 |
| 1978 | 5,349 | 17.6 | 6,041 | 19.9 | 2,096 | 6.9 |
| 1979 | 5,859 | 18.9 | 6,157 | 19.9 | 2,159 | 7.0 |
| 1980 | 5,605 | 19.6 | 5,861 | 20.5 | 2,308 | 8.1 |
| 1981 | 5,418 | 19.6 | 5,788 | 21.0 | 2,221 | 8.1 |
| 1982 | 5,318 | 20.2 | 5,784 | 22.0 | 2,187 | 8.3 |
| 1983 | 5,255 | 20.9 | 5,700 | 22.6 | 2,087 | 8.3 |
| 1984 | 5,435 | 21.3 | 5,881 | 23.1 | 2,078 | 8.1 |
| 1985 | 5,802 | 22.1 | 6,100 | 23.2 | 2,129 | 8.1 |
| 1986 | 6,131 | 23.7 | 6,182 | 23.9 | 2,169 | 8.4 |
| 1987 | 6,322 | 23.5 | 6,501 | 24.2 | 2,233 | 8.3 |

EMPLOYMENT STATISTICS

| |
|------|

| | | AVERAGE | EARNINGS | UNEMPLO | YMENT RATE |
|------|------------------|----------|-------------------|---------|------------|
| YEAR | TOTAL EMPLOYMENT | COUNTY | KENTUCKY | COUNTY | KENTUCKY |
| 1969 | 25,181 | \$22,431 | \$17,440 | • | 4.2 |
| 1970 | 26,263 | \$22,517 | \$17,811 | 4.4 | 4.4 |
| 1971 | 25,645 | \$22,718 | \$18,166 | 7.2 | 5.1 |
| 1972 | 25,030 | \$23,100 | \$18,970 | 10.6 | 6.0 |
| 1973 | 23,404 | \$21,742 | \$19,232 | 5.8 | 3.7 |
| 1974 | 24,844 | \$22,687 | \$19,008 | 5.8 | 4.5 |
| 1975 | 25,450 | \$23,407 | \$18 , 976 | 5.2 | 7.3 |
| 1976 | 26,758 | \$24,321 | \$19,563 | 4.2 | 5.6 |
| 1977 | 28,386 | \$24,127 | \$20,031 | 4.1 | 4.7 |
| 1978 | 30,309 | \$25,583 | \$20,121 | 4.1 | 5.3 |
| 1979 | 30,938 | \$26,131 | \$20,110 | 6.2 | 5.5 |
| 1980 | 28,570 | \$25,282 | \$19,439 | 10.4 | 8.0 |
| 1981 | 27,584 | \$25,076 | \$19,286 | 9.0 | 8.4 |
| 1982 | 26,320 | \$24,645 | \$18,931 | 11.9 | 10.6 |
| 1983 | 25,175 | \$23,844 | \$18,358 | 16.5 | 11.6 |
| 1984 | 25,499 | \$23,676 | \$19,080 | 12.5 | 9.3 |
| 1985 | 26,312 | \$22,967 | \$18,676 | 11.9 | 9.5 |
| 1986 | 25,878 | \$22,630 | \$18,627 | 11.4 | 9.3 |
| 1987 | 26,890 | \$23,005 | \$18,636 | 10.4 | 8.8 |

POPULATION STATISTICS

| | | | PERCENT | UNDER 6 | PERCE | NT 60+ | |
|------|-----------------|---------|---------|----------|--------|----------|---|
| YEAR | POPULATION | % OF KY | COUNTY | KENTUCKY | COUNTY | KENTUCKY | - |
| | 50 200 | 1 64 | | | | | |
| 1969 | 52,300 | 1.64 | _ • _ | • • | • | • • | |
| 1970 | 52 , 400 | 1.62 | 9.5 | 10.3 | 15.4 | 14.8 | |
| 1971 | 52 , 900 | 1.60 | 8.9 | 9.6 | 15.6 | 14.8 | |
| 1972 | 53,100 | 1.59 | 8.6 | 9.1 | 15.8 | 15.0 | |
| 1973 | 52,400 | 1.55 | 8.5 | 8.8 | 16.4 | | |
| 1974 | 52,300 | 1.53 | 8.3 | 8.6 | 16.7 | | |
| 1975 | 53,000 | 1.53 | 8.0 | 8.4 | 16.9 | 15.4 | |
| 1976 | 53,100 | 1.50 | 7.9 | 8.2 | 17.2 | 15.5 | |
| 1977 | 54,000 | 1.51 | 7.9 | 8.4 | 17.2 | 15.5 | |
| 1978 | 55,400 | 1.53 | 7.9 | 8.5 | 17.0 | | |
| 1979 | 55,600 | 1.53 | 8.0 | 8.7 | 17.3 | | |
| 1980 | 55,500 | 1.51 | 8.5 | 9.2 | 16.6 | 15.4 | |
| 1981 | 55,200 | 1.50 | 8.5 | 9.3 | 16.9 | 15.5 | |
| 1982 | 55,000 | 1.49 | 8.4 | 9.2 | 17.3 | 15.7 | |
| 1983 | 55,000 | 1.48 | 8.3 | 9.2 | 17.8 | 15.9 | |
| 1984 | 54,200 | 1.46 | 8.1 | 9.0 | 18.2 | 16.1 | |
| 1985 | 53,700 | 1.44 | 7.8 | 8.9 | 18.7 | 16.3 | |
| 1986 | 53,200 | 1.43 | 7.5 | 8.6 | 19.2 | 16.5 | |
| 1987 | 52,800 | 1.42 | • | • | • | • | |

BOYD COUNTY

COAL MINING STATISTICS

| YEAR | PRODUCTION (Thousand Tons) | EMPLOYMENT | AVERAGE VALUE PER TON | COAL TAX RECEIPTS (000) |
|------|----------------------------|------------|-----------------------|-------------------------|
| 1969 | 13 | 188 | \$15.40 | • |
| 1970 | 40 | 181 | \$17.41 | • |
| 1971 | 169 | 136 | \$17.86 | • |
| 1972 | 213 | 141 | \$16.58 | • |
| 1973 | 169 | 149 | \$16.57 | • |
| 1974 | * 193 | 216 | \$53.93 | \$229 |
| 1975 | 76 | 188 | \$31.10 | \$238 |
| 1976 | 267 | 184 | • | \$120 |
| 1977 | 559 | 290 | \$33.75 | \$407 |
| 1978 | 696 | 334 | \$37.87 | \$747 |
| 1979 | 295 | 206 | \$30.65 | \$2,225 |
| 1980 | 333 | 184 | • | \$1,689 |
| 1981 | 201 | 187 | \$31.76 | \$891 |
| 1982 | 192 | 143 | \$25.20 | \$768 |
| 1983 | 207 | 106 | \$33.16 | \$1,179 |
| 1984 | 331 | 106 | \$28.02 | \$1,487 |
| 1985 | 1,044 | 126 | • | \$1,783 |
| 1986 | 503 | 112 | \$20.84 | \$1,790 |
| 1987 | • | 559 | • | • |

Note: All dollar figures are presented in constant 1988 dollars.

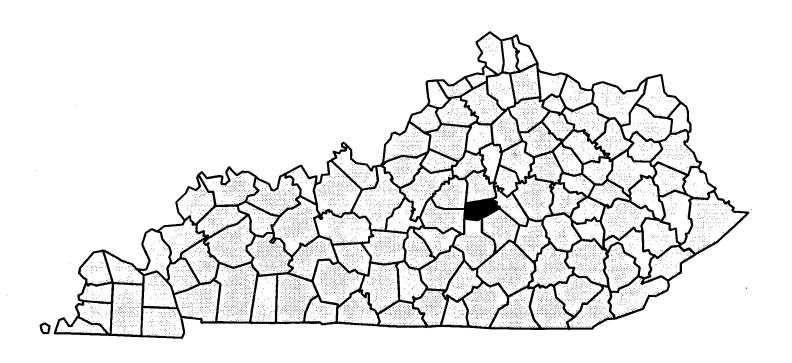
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ECONOMIC TRENDS IN KENTUCKY COUNTIES 1969-1987

BOYLE COUNTY



Prepared by Virginia Wilson Donna A. Cantrell

RESEARCH MEMORANDUM 438 Legislative Research Commission Frankfort, Kentucky February, 1990

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ECONOMIC TRENDS IN KENTUCKY COUNTIES 1969-1987

BOYLE COUNTY

Prepared by Virginia Wilson Donna A. Cantrell

RESEARCH MEMORANDUM 438 Legislative Research Commission Frankfort, Kentucky February, 1990

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FOREWORD

This publication is one of a set of 120, highlighting economic trends in each county in Kentucky from 1969-1987. This effort is part of the ongoing activities sponsored by the Legislative Research Commission to provide a long-term perspective on issues for decision makers. The economies of individual counties do not always parallel overall state trends. This set of publications is an attempt to look at the economic trends in each county over time and to point out where the economies of individual counties may be performing differently from the economy of the state as a whole.

This publication was prepared by Virginia Wilson and Donna Cantrell. Susan Dance assisted in production of the manuscript and Charles Bush edited the report. The assistance of Carol Straus from the Center for Business and Economic Research at the University of Kentucky in deciphering data is gratefully acknowledged.

Vic Hellard, Jr. Director

The Capitol Frankfort February, 1990

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SUMMARY

The Boyle County economy, as measured by personal income, grew moderately from 1969 to 1987. Boyle County generally maintained its share of Kentucky personal income, indicating that the county economy kept pace with the state economy. While per capita personal income was equal to that of the state, average earnings per job were significantly below those of the state.

The county was heavily vested in the goods-producing industries of manufacturing and farming. While the state share of earnings in manufacturing declined, this component of the Boyle County economy grew in importance. The farm sector decreased its share of earnings and employment in the county and the state.

The non-goods-producing sectors, particularly service and trade, experienced significant growth at the state level. In Boyle County, the trade sector increased its share of employment, while its share of earnings declined. Data on the service sector in Boyle County was not disclosed, to preserve confidentiality of data sources.

The county's economy was helped by its high concentration in the manufacturing sector. This is because manufacturing is a relatively high wage industry. However, manufacturing industries are very sensitive to economic fluctuations. Consequently, while a high concentration in manufacturing supported the economy during a period of national economic growth, it may also make the county more susceptible to recessionary contractions. The national economic outlook is for continued expansion of the service and trade sector. Future economic growth in Boyle County could be enhanced by expansion of these sectors.

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INTRODUCTION

This is one of a series of reports called <u>Economic Trends in Kentucky Counties</u>. The purpose of this series is to describe the economic structure of Kentucky counties and to assess their economic performance relative to their own history and relative to the Kentucky economy. Information on the structure and patterns of change in county economies and an understanding of their relationship to the Kentucky economy can help in making policy decisions that are intended to shape Kentucky's economic future.

When assessing any economy there are several pertinent questions which may be addressed. The first concerns changes in the absolute size of the economy over time. Here the relevant comparison is between the county economy and its own history. Since most economic variables are given in dollars and since inflation causes the value of a dollar to vary over time, all dollar values in this report are presented in constant 1988 dollars. This allows analysis of real changes over time by controlling for the effects of inflation.

A second question concerns the structure and nature of the county economy. The structure of an economy refers to the relative share contributed by the various segments of the economy, while the nature deals with how this share has changed over time.

A third question concerns the performance of the county economy when compared to the Kentucky economy. For example, if a county has a higher proportion of earnings or employment in a particular sector it would indicate a specialization in that sector. Differences in economic structure may explain variations in relative economic well-being between a county and the state as a whole.

Economic data for counties are usually published after a lag of two years. Therefore, most data in this report cover the period 1969 to 1987. All data for this report was obtained from the Kentucky Economic Information System, an on-line database maintained by the University of Kentucky Center for Business and Economic Development.

There are certain caveats which should be remembered when analyzing data. First, it is a common and useful approach to evaluate the percentage an economic sector contributes to the total economy. However, one must remember that a sector's percentage contribution may decline even when its absolute value is increasing if another sector's contribution is growing at a faster rate. Secondly, when reviewing data in graphical analyses, the scales used to present data should be noted. In this report most graphs are presented with the narrowest scale which will cover all data points. This can accentuate visual patterns over time even when absolute changes are relatively small.

^{*}For an analysis of economic trends in Kentucky, see Virginia Wilson, <u>Patterns of Growth and Decline in the Kentucky Economy 1969-1988</u>, Research Memorandum 437, Legislative Research Commission, November 1989.

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ECONOMIC TRENDS IN BOYLE COUNTY

The following analysis includes a brief description of the county economy and is accompanied by graphical illustrations. Data tables are also included at the end of this report. Three principal components of the Boyle County economy are analyzed. They are:

- 1. Personal Income
- 2. Earnings
- 3. Employment

Personal Income

Personal income is often used as a measure of the economic activity in an area. Personal income is the sum of all the dollar income received by individuals in an area from any legal source. Personal income data is published by the Bureau of Economic Analysis (BEA) for most major geographic regions, including states, counties, and major cities.

In general, income can be obtained in three ways. First, it can be earned by the work of an individual. This type of income includes wage and salary income and proprietors' earnings. Second, income can be earned by property. This component includes earnings from rents, dividends, and interest. Finally, income can be received as a gift or an entitlement. This type of income constitutes the component of personal income called transfer payments. Included in this component is income from sources such as retirement benefits, unemployment benefits, food stamps, and medical programs such as Medicare and Medicaid.

As can be seen in Chart 1A, the size of the Boyle County economy, as measured by personal income, increased from \$195 million in 1969 to \$323 million in 1987, after adjusting for inflation. Chart 1B shows Boyle County total personal income as a percent of Kentucky total personal income. Boyle County had only small changes in its share of Kentucky personal income.

A similar pattern emerges from an examination of per capita personal income. Per capita personal income is simply the total personal income of an area divided by its population. Per capita personal income is often used as a measure of the economic well-being of the residents of an area. Charts IC and ID indicate that Boyle County per capita income increased over the time period to a level of \$12,522 in 1987, which was 100.2 percent of Kentucky per capita personal income.

A better understanding of the nature of economic activity can be gleaned from an examination of the relative contribution of the components of personal income and how their shares have changed over time. This information is illustrated in Charts 2A-2D. Earnings showed strong growth through 1981. However, with the national recession of 1982, earnings dropped significantly. By 1984, earnings were once again increasing. Overall, total earnings

increased from \$150 million in 1969 to \$210 million in 1987 (in constant 1988 dollars). While earnings increased, their share of personal income declined over time. This trend occurred at the state level as well. In 1987, earnings accounted for 64.9 percent of Boyle County's total personal income, lower than Kentucky's 67.5 percent share.

Transfer payments contributed \$22 million to total personal income in 1969 and \$53 million in 1987. During the same period, transfer payments contributed a slightly lower percentage of personal income in Boyle County than in Kentucky.

Income from property in Boyle County grew strongly through the time period. Income from property totalled \$22 million in 1969 and increased to \$61 million in 1987.

Earnings

Earnings are the component of personal income reflecting payments to individuals in return for labor. Earnings include both wages and salaries and proprietor's income. In 1969, Boyle County received 30.0 percent of total earnings from manufacturing. This percentage increased to 36.1 percent in 1987 (Chart 3A). The county trend toward increasing concentration in manufacturing is different from that for the state, where the percentage of earnings from manufacturing showed a steady decline over the period.

Farming's contribution to total county earnings decreased from 8.8 percent in 1969 to 1.3 percent in 1987. The trend toward declining farm earnings is consistent with state and national trends.

Earnings from non-goods-producing industries as a percent of total earnings are illustrated in Chart 3B. The share of earnings from the trade sector remained stable and accounted for 10.8 percent in 1987. The percent of earnings from the state and local government sector declined slightly, to 9.4 percent in 1987. At the state level, the percents of earnings from trade and state and local government were stable.

The service sector was the fastest growing sector of the Kentucky economy. However, data on the service sector in Boyle County was unavailable. Data on this sector was withheld by the Bureau of Economic Analysis, in order to preserve confidentiality of data sources. Nondisclosure rules prevent the release of data when either there are very few firms operating in a particular sector, or when one firm provides most of the activity in that sector. In Boyle County, nondisclosure of the service sector data likely results from the dominance of the county service sector by Centre College, a private educational institution. Private educational facilities are classified as service firms in the data.

Average earnings per job (adjusted for inflation) for Boyle County and Kentucky are shown in Chart 3D. In Kentucky, average earnings per job reached a high of \$20,121 per person in 1978. Since then, average earnings per job

declined and in 1987 they were \$18,636 per person. Trends in Boyle County average earnings per job paralleled state trends. Average earnings reached \$16.945 in 1987, well below the Kentucky average.

Employment

Employment is considered any activity for which one receives financial remuneration in the form of wages or profits. Total employment in Boyle County increased substantially during the data period. In 1969, total employment stood at 11,980 people. By 1987, that figure had increased to 16,858.

The unemployment rate, often used as an indicator of economic well-being, is the ratio of unemployed to the total civilian labor force. Unemployment is described as a condition of being out of work while actively seeking employment within the last thirty days. The civilian labor force is described as the proportion of population age 16 or older employed or actively seeking employment. Annual unemployment rates for Kentucky and Boyle County are presented in Chart 4B. Unemployment rates in Boyle County followed those of the state during the period. In 1987, the county unemployment rate was 9.7 percent, compared to 8.8 percent for Kentucky.

Another employment concept includes the discouraged worker. Discouraged workers are persons who want jobs but made no attempt to find work in the last thirty days because they believe they could not find it. These individuals are not included when calculating official unemployment rates. The Cabinet for Human Resources does not estimate discouraged workers by county. However, preliminary research by the Cabinet indicates that the inclusion of discouraged workers in the civilian labor force estimate would increase the unemployment rate by approximately four percent for the state. This figure would vary by county depending on the labor market in a county or within commuting distance.

Employment in the goods-producing industries is illustrated in Chart 4C. The percent of total employment in manufacturing decreased from 26.3 percent in 1969 to 23.4 percent in 1987. The farm sector's share of employment declined from 12.2 percent in 1969 to 6.8 percent in 1987. Overall, Kentucky saw employment shares in both of these sectors decline during the period.

Employment in the non-goods-producing industries is presented in Chart 4D. Trade sector employment increased from 1969 to 1987. In 1969, the trade sector accounted for 13.4 percent of employment. This share increased to 16.4 percent in 1987. The percent of employment in the state and local government sector decreased from 10.9 percent in 1969 to 8.9 percent in 1987. At the state level, trade employment increased significantly, while government employment remained constant.

Similar to the situation regarding service sector earnings, service sector employment data was withheld in order to preserve the confidentiality of data sources. At the state level, service sector employment increased significantly.

Population

The census conducted each decade counts the actual population in an area. Population is then statistically estimated during intervening years. The demographic composition of this population growth has important implications for the future demand for goods and services, and ultimately, the economic structure of Boyle County.

The Boyle County population grew from 21,100 in 1969 to 25,800 in 1987 (Chart 5A). It was estimated that in 1986, 7.4 percent of Boyle County's population was under six years of age, compared to 8.6 percent for the state. Boyle County has a higher proportion of residents age sixty or over than the state. In 1986, 18.1 percent of the Boyle County population was sixty years of age and over, while 16.5 percent of all Kentucky residents fell in this age group.

as a Percent of Kentucky Per Capita Personal Income 1985 as a Percent of Kentucky Personal Income 1983 1983 PER CAPITA PERSONAL INCOME 1981 <u>8</u> PERSONAL INCOME BOYLE COUNTY BOYLE COUNTY 1979 1979 CHART 1B CHART 1D 1977 1977 1975 1975 1973 1973 197 1971 1 200 0.694 0.644 8 **Percent** 0.684 0.674 Percent 혛 <u>⇔</u> 8 0.664 0.654 ġ 97. 1987 1987 1985 1985 <u>1983</u> <u>\$</u> PER CAPITA PERSONAL INCOME REAL PERSONAL INCOME 188 1881 in Constant 1988 Dollars Millions of 1988 dollars BOYLE COUNTY BOYLE COUNTY 1979 1979 CHAFIT 1A CHART 1C 1977 1977 1975 1975 1973 1973 197 **197** 1969 \$330+ \$302 \$246 \$218· \$190 Dollars \$13,000 • \$8,000 \$274 \$12,000 \$11,000 \$10,000 **39,000** Millions

1985

1987

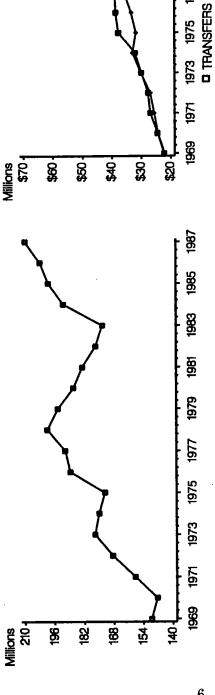
REAL TOTAL EARNINGS Millions of 1988 dollars BOYLE COUNTY CHART 2A

TRANSFER PAYMENTS and INCOME FROM PROPERTY

BOYLE COUNTY

CHART 2B

Millions of 1988 Dollars



as a Percent of Personal Income TRANSFER PAYMENTS BOYLE COUNTY CHART 2D

as a Percent of Personal Income

TOTAL EARNINGS BOYLE COUNTY

CHART 2C

1985

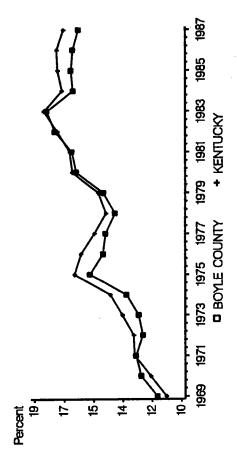
1983

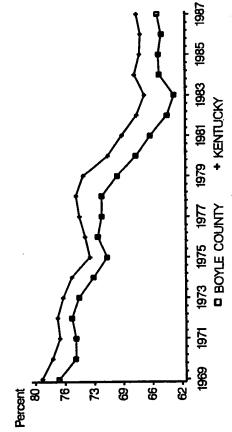
1981 1981

1979

1977

+ PROPERTY



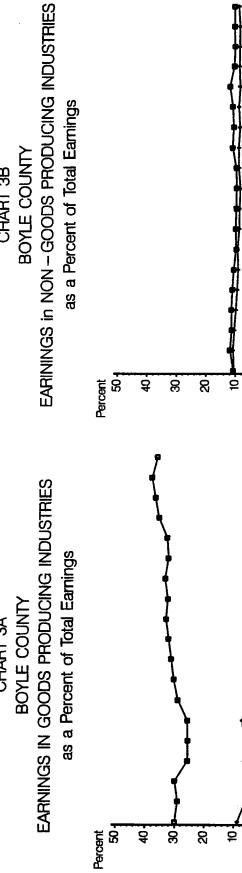


BOYLE COUNTY CHART 3A

as a Percent of Total Earnings

BOYLE COUNTY

CHART 3B





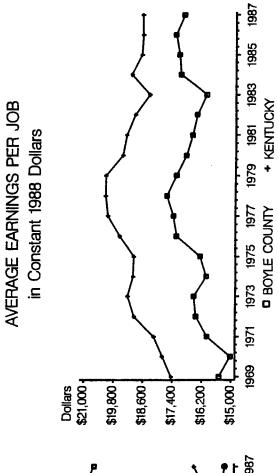
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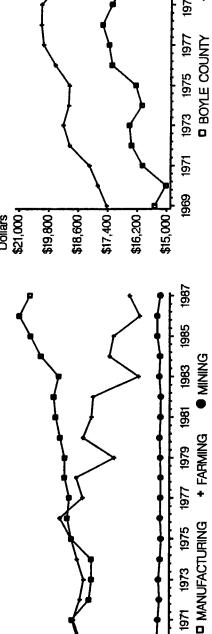
Percent

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8





1973

1971

<u>1969</u>

0.00

0.30

1987

1985

1983

1981

1979

1975

1973

1969

1987

● MINING

+ FARMING

DI MANUFACTURING

CHART 3C

1979

1975

1973

1971

1969

Ö

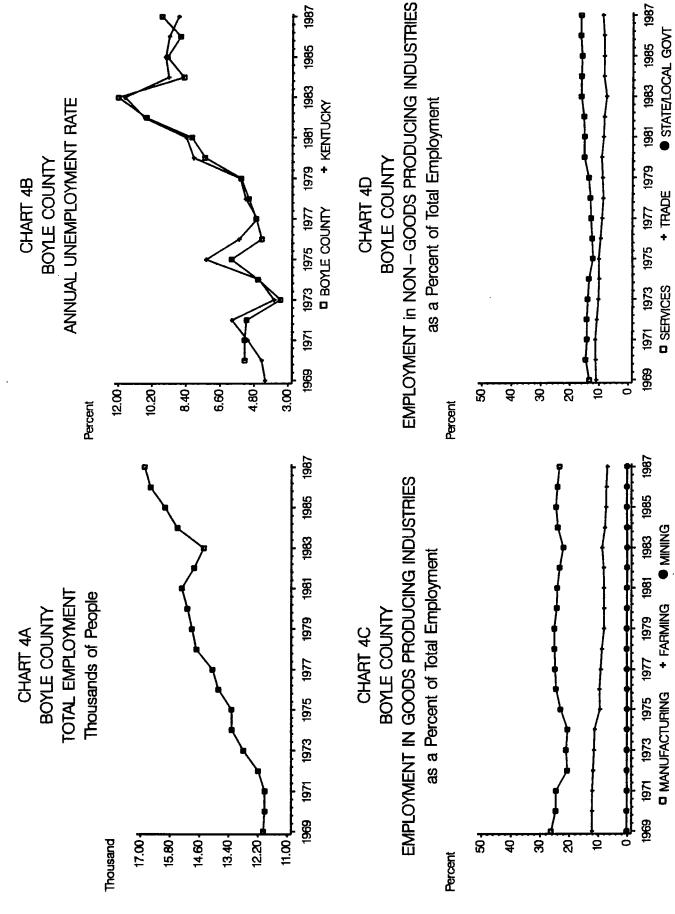
a SERVICES 1971

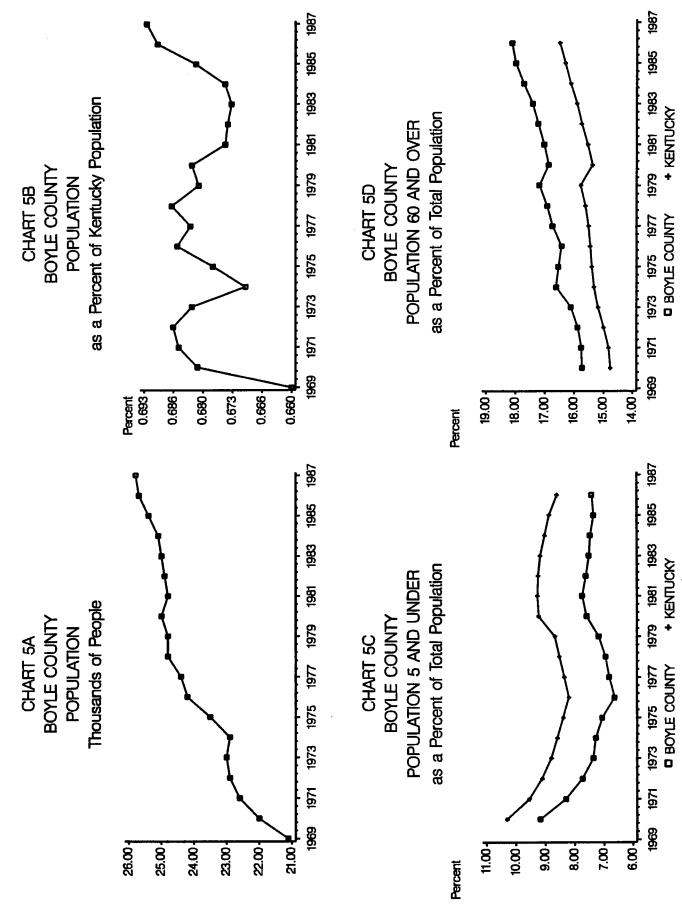
+ TRADE 1977

STATE/LOCAL GOVT

BOYLE COUNTY

CHART 3D





PERSONAL INCOME In Constant 1988 Dollars

| Year | County Personal Income (M\$) | Percent of Kentucky (%) | Per Capita Personal Income (\$) | Percent of Kentucky (%) |
|------|---------------------------------------|----------------------------------|--|----------------------------------|
| 1969 | 195 | 0.69 | 9,225 | 103.8 |
| 1970 | 196 | 0.67 | 8,938 | 98.1 |
| 1971 | 210 | 0.69 | 9,300 | 100.5 |
| 1972 | 223 | 0.69 | 9,731 | 99.9 |
| 1973 | 237 | 0.68 | 10,319 | 100.5 |
| 1974 | 240 | 0.68 | 10,458 | 100.9 |
| 1975 | 242 | 0.68 | 10,265 | 100.0 |
| 1976 | 261 | 0.69 | 10,787 | 100.5 |
| 1977 | 266 | 0.66 | 10,873 | 97.3 |
| 1978 | 277 | 0.66 | 11,170 | 96.6 |
| 1979 | 278 | 0.65 | 11,199 | 95.2 |
| 1980 | 277 | 0.65 | 11,050 | 95.8 |
| 1981 | 278 | 0.64 | 11,184 | 95.4 |
| 1982 | 277 | 0.65 | 11,130 | 96.3 |
| 1983 | 275 | 0.65 | 11,010 | 96.7 |
| 1984 | 296 | 0.66 | 11,796 | 98.4 |
| 1985 | 307 | 0.69 | 12,108 | 100.9 |
| 1986 | 315 | 0.69 | 12,246 | 100.1 |
| 1987 | 323 | 0.69 | 12,522 | 100.2 |

COMPONENTS OF PERSONAL INCOME In Constant 1988 Dollars

| | | EARNII | NGS | TRAI | NSFER P | AYMENTS | INCOM | E from 1 | PROPERTY |
|------|-------------------------------|--------|----------|------|-----------------------|----------|-------|-----------------------|----------|
| | Percent of Personal Income | | | | cent of nal Income | | | cent of nal Income | |
| Year | M\$ | County | Kentucky | M\$ | County | Kentucky | М\$ | County | Kentucky |
| 1969 | 150 | 77.1 | 79.2 | 22 | 11.5 | 10.9 | 22 | 11.4 | 9.9 |
| 1970 | 147 | 75.1 | 77.9 | 25 | | | 24 | | |
| 1971 | 158 | 75.0 | 77.0 | 27 | 12.8 | | 26 | | |
| 1972 | 169 | 75.5 | 77.3 | 28 | 12.4 | | 27 | | |
| 1973 | 177 | 74.6 | 76.6 | 30 | | | 30 | | |
| 1974 | 175 | 72.9 | 75.5 | 32 | 13.4 | 14.4 | 33 | | |
| 1975 | 172 | 71.2 | 73.3 | 38 | | | 32 | | 10.1 |
| 1976 | 189 | 72.4 | 73.9 | 39 | | | 33 | | 10.0 |
| 1977 | 191 | 71.9 | 74.6 | 39 | 14.7 | 15.3 | 36 | | 10.1 |
| 1978 | 199 | 71.8 | 75.0 | 39 | 14.1 | 14.6 | 39 | | 10.4 |
| 1979 | 194 | 69.9 | 74.1 | 41 | 14.8 | 15.1 | 42 | | |
| 1980 | 187 | 67.6 | 71.1 | 45 | 16.4 | 16.7 | 44 | 15.9 | 12.2 |
| 1981 | 183 | 65.8 | 69.3 | 46 | 16.7 | 16.8 | 48 | | 13.8 |
| 1982 | 176 | 63.8 | 67.5 | 49 | 17.7 | 17.6 | 51 | | 14.9 |
| 1983 | 173 | 62.9 | 66.6 | 50 | 18.2 | 18.4 | 52 | 18.8 | 15.1 |
| 1984 | 192 | 64.7 | 67.8 | 49 | 16.6 | 17.3 | 55 | | 14.9 |
| 1985 | 199 | 64.8 | 67.2 | 51 | | 17.6 | 57 | 18.5 | |
| 1986 | 203 | 64.4 | 67.1 | 52 | | | 60 | | 15.3 |
| 1987 | 210 | 64.9 | 67.5 | 53 | | 17.2 | 61 | | 15.3 |

SECTOR EARNINGS as a PERCENT of TOTAL COUNTY EARNINGS and as a PERCENT of KENTUCKY SECTOR EARNINGS

| | MANUF | MANUFACTURING | | FARMING | | MINING | |
|--|--|--|--|--|---|--|--|
| YEAR | TOTAL | KENTUCKY | TOTAL | KENTUCKY | TOTAL | KENTUCKY | |
| 1969 1970 1971 1972 1973 1974 1975 1976 1977 1978 1979 1980 1981 1982 1983 1984 1985 | 30.0 29.1 30.0 25.7 25.6 25.7 29.0 30.3 31.2 32.1 33.0 32.4 33.3 32.7 35.5 | 0.98 0.89 0.95 0.78 0.76 0.76 0.96 1.00 0.98 1.03 1.03 1.03 1.03 1.04 1.12 1.14 1.09 1.27 1.38 | 8.8 6.1 6.4 6.4 7.1 5.1 5.7 5.1 4.7 2.9 3.8 4.6 3.9 0.6 3.0 2.0 | 1.17 0.87 0.94 0.87 0.84 0.90 0.96 1.08 0.85 0.91 0.52 0.84 0.76 0.74 0.28 0.57 | 0.5 0.4 0.4 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 | 0.11 0.08 0.08 0.06 0.07 0.05 0.05 0.05 0.05 0.05 0.05 0.05 | |
| 1986 1987 | 37.9 36.1 | 1.49 1.38 | 0.8 1.3 | 0.27 0.37 | 0.5 0.3 | 0.08 0.05 | |

| | SE | RVICES | | | | and LOCAL ERNMENT | |
|------|-------|----------|-------|----------|-------|----------------------|--|
| YEAR | TOTAL | KENTUCKY | TOTAL | KENTUCKY | TOTAL | KENTUCKY | |
| 1969 | | | 10.8 | 0.55 | 10.6 | 0.92 | |
| 1970 | • | • | 11.9 | | 10.9 | | |
| 1971 | • | • | 11.3 | 0.56 | 10.5 | 0.84 | |
| 1972 | • | • | 11.5 | 0.57 | 10.0 | 0.80 | |
| 1973 | • | • | 11.2 | 0.55 | 9.6 | 0.79 | |
| 1974 | • | • | 10.7 | 0.53 | 9.3 | 0.78 | |
| 1975 | • | • | 9.9 | 0.48 | 9.5 | 0.77 | |
| 1976 | • | • | 10.1 | 0.51 | 8.9 | 0.75 | |
| 1977 | • | • | 9.9 | 0.50 | 8.8 | 0.74 | |
| 1978 | • | • | 9.8 | 0.50 | 8.6 | 0.73 | |
| 1979 | • | • | 10.0 | 0.49 | 9.1 | 0.73 | |
| 1980 | • | • | 11.3 | 0.59 | 9.2 | 0.74 | |
| 1981 | • | • | 10.9 | 0.59 | 8.8 | 0.72 | |
| 1982 | • | • | 11.3 | 0.59 | 9.2 | 0.71 | |
| 1983 | • | • | 12.3 | 0.61 | 8.8 | 0.64 | |
| 1984 | • | • | 10.8 | 0.60 | 9.1 | 0.73 | |
| 1985 | • | • | 10.6 | 0.60 | 9.0 | 0.73 | |
| 1986 | • | • | 10.9 | 0.63 | 9.0 | 0.73 | |
| 1987 | • | • | 10.8 | 0.61 | 9.4 | 0.74 | |

COUNTY EMPLOYMENT by SECTOR

| MANUFACTURING | | FARMI | NG | MINING | | | |
|---------------|------------|---------------------|------------|---------------------|------------|---------------------|---|
| YEAR | EMPLOYMENT | PERCENT OF TOTAL | EMPLOYMENT | PERCENT OF TOTAL | EMPLOYMENT | PERCENT OF TOTAL | |
| 1969 | 3,155 | 26.3 | 1,462 | 12.2 | 34 | 0.3 | i |
| 1970 | 2,949 | 24.7 | 1,453 | 12.2 | 38 | 0.3 | |
| 1971 | 2,932 | 24.6 | 1,441 | 12.1 | 28 | 0.2 | |
| 1972 | 2,515 | 20.6 | 1,440 | 11.8 | 28 | 0.2 | |
| 1973 | 2,695 | 21.0 | 1,471 | 11.5 | 29 | 0.2 | |
| 1974 | 2,727 | 20.5 | 1,493 | 11.2 | 27 | 0.2 | |
| 1975 | 3,053 | 23.0 | 1,250 | 9.4 | 27 | 0.2 | |
| 1976 | 3,393 | 24.5 | 1,325 | 9.6 | 26 | 0.2 | |
| 1977 | 3,495 | 24.9 | 1,279 | 9.1 | 28 | 0.2 | |
| 1978 | 3,691 | 25.1 | 1,276 | 8.7 | 33 | 0.2 | |
| 1979 | 3,746 | 25.1 | 1,176 | 7.9 | 34 | 0.2 | |
| 1980 | 3,665 | 24.3 | 1,198 | 7.9 | 33 | 0.2 | |
| 1981 | 3,697 | 24.1 | 1,224 | 8.0 | 32 | 0.2 | |
| 1982 | 3,453 | 23.3 | 1,212 | 8.2 | 32 | 0.2 | |
| 1983 | 3,174 | 22.0 | 1,251 | 8.7 | 29 | 0.2 | |
| 1984 | 3,725 | 24.0 | 1,194 | 7.7 | 28 | 0.2 | |
| 1985 | 3,941 | 24.6 | 1,162 | 7.3 | 34 | 0.2 | |
| 1986 | 4,000 | 24.1 | 1,188 | 7.2 | 39 | 0.2 | |
| 1987 | 3,944 | 23.4 | 1,146 | 6.8 | 34 | 0.2 | |

| | SERVI | CES | TRAD | E | STATE and LOCAL GOVERNMENT | | |
|------|------------|---------------------|------------|---------------------|-------------------------------|---------------------|--|
| YEAR | EMPLOYMENT | PERCENT OF TOTAL | EMPLOYMENT | PERCENT OF TOTAL | EMPLOYMENT | PERCENT OF TOTAL | |
| 1969 | | • | 1,609 | 13.4 | 1,310 | 10.9 | |
| 1970 | • | • | 1,742 | 14.6 | 1,330 | 11.2 | |
| 1971 | • | • | 1,695 | 14.2 | 1,348 | 11.3 | |
| 1972 | • | • | 1,744 | 14.3 | 1,318 | 10.8 | |
| 1973 | • | • | 1,797 | 14.0 | 1,314 | 10.3 | |
| 1974 | • | • | 1,808 | 13.6 | 1,334 | 10.0 | |
| 1975 | • | • | 1,625 | 12.2 | 1,343 | 10.1 | |
| 1976 | • | • | 1,727 | 12.5 | 1,312 | 9.5 | |
| 1977 | • | • | 1,820 | 12.9 | 1,265 | 9.0 | |
| 1978 | • | • | 1,938 | 13.2 | 1,271 | 8.6 | |
| 1979 | • | • | 2,052 | 13.8 | 1,327 | 8.9 | |
| 1980 | • | • | 2,309 | 15.3 | 1,386 | 9.2 | |
| 1981 | • | • | 2,346 | 15.3 | 1,322 | 8.6 | |
| 1982 | • | • | 2,299 | 15.5 | 1,243 | 8.4 | |
| 1983 | • | • | 2,364 | 16.4 | 1,096 | 7.6 | |
| 1984 | • | • | 2,531 | 16.3 | 1,318 | 8.5 | |
| 1985 | • | • | 2,586 | 16.1 | 1,352 | 8.4 | |
| 1986 | • | • | 2,751 | 16.6 | 1,411 | 8.5 | |
| 1987 | • | • | 2,771 | 16.4 | 1,500 | 8.9 | |

EMPLOYMENT STATISTICS

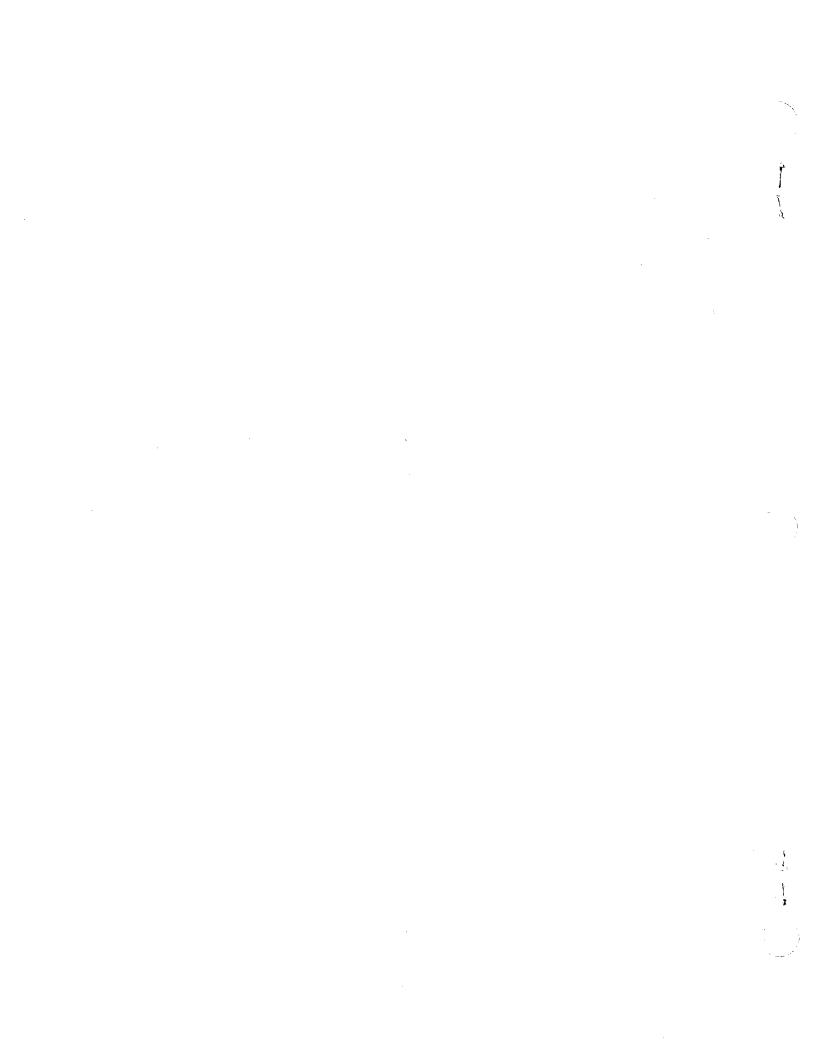
| | | AVERAGE | EARNINGS | UNEMPLO | YMENT RATE |
|------|------------------|----------|-------------------|---------|------------|
| YEAR | TOTAL EMPLOYMENT | COUNTY | KENTUCKY | COUNTY | KENTUCKY |
| 1969 | 11,980 | \$15,477 | \$17,440 | • | 4.2 |
| 1970 | 11,922 | \$15,024 | \$17,811 | 5.3 | 4.4 |
| 1971 | 11,925 | \$15,980 | \$18,166 | 5.3 | 5.1 |
| 1972 | 12,192 | \$16,452 | \$18 , 970 | 5.2 | 6.0 |
| 1973 | 12,805 | \$16,541 | \$19,232 | 3.4 | 3.7 |
| 1974 | 13,276 | \$16,024 | \$19,008 | 4.6 | 4.5 |
| 1975 | 13,283 | \$16,280 | \$18,976 | 6.0 | 7.3 |
| 1976 | 13,825 | \$17,239 | \$19,563 | 4.4 | 5.6 |
| 1977 | 14,062 | \$17,365 | \$20,031 | 4.7 | 4.7 |
| 1978 | 14,727 | \$17,640 | \$20,121 | 5.1 | 5.3 |
| 1979 | 14,908 | \$17,247 | \$20,110 | 5.5 | 5.5 |
| 1980 | 15,095 | \$16,854 | \$19,439 | 7.4 | 8.0 |
| 1981 | 15,323 | \$16,610 | \$19,286 | 8.1 | 8.4 |
| 1982 | 14,820 | \$16,424 | \$18,931 | 10.5 | 10.6 |
| 1983 | 14,429 | \$16,026 | \$18,358 | 12.0 | 11.6 |
| 1984 | 15,512 | \$17,086 | \$19,080 | 8.5 | 9.3 |
| 1985 | 16,019 | \$17,138 | \$18,676 | 9.4 | 9.5 |
| 1986 | 16,614 | \$17,289 | \$18,627 | 8.7 | 9.3 |
| 1987 | 16,858 | \$16,945 | \$18,636 | 9.7 | 8.8 |

POPULATION STATISTICS

| | | | PERCENT UNDER AGE 6 | | PERCENT | AGE 60+ |
|--|--|--|--|--|--|--------------------------------------|
| YEAR | POPULATION | % OF KY | COUNTY | KENTUCKY | COUNTY | KENTUCKY |
| 1969 1970 1971 1972 1973 1974 1975 1976 | 21,100 22,000 22,600 22,900 23,000 22,900 23,500 24,200 24,400 | 0.66 0.68 0.69 0.69 0.68 0.67 0.68 0.69 | 9.2 8.3 7.7 7.4 7.3 7.1 6.6 6.8 | 8.8 8.6 8.4 8.2 | 15.7 15.8 15.9 16.1 16.6 16.5 16.4 | 15.0 15.2 15.3 15.4 15.5 |
| 1978 1979 1980 1981 1982 1983 1984 1985 1986 | 24,800 24,800 25,000 24,800 24,900 25,000 25,100 25,400 25,700 | 0.69 0.68 0.67 0.67 0.67 0.67 0.68 0.69 | 6.9 7.2 7.6 7.7 7.6 7.5 7.5 7.4 | 8.5 8.7 9.2 9.3 9.2 9.0 8.9 8.6 | 16.9 17.2 16.9 17.0 17.2 17.4 17.7 18.0 | 15.6 15.8 15.4 15.5 15.7 |
| 1986 1987 | 25,700 25,800 | 0.69 0.69 | 7.4 | 8.6 | 18.1 | 16.5 |

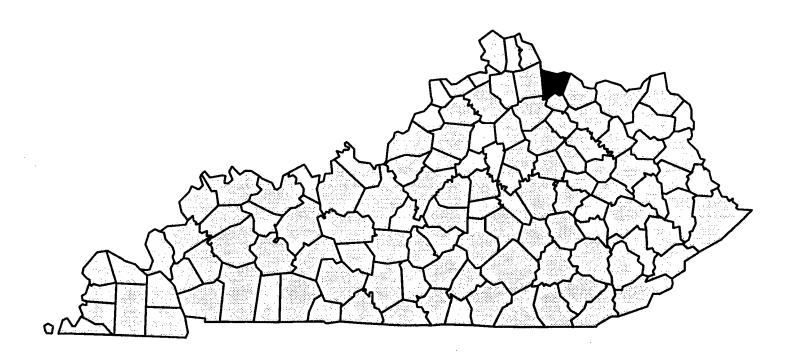
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ECONOMIC TRENDS IN KENTUCKY COUNTIES 1969-1987

BRACKEN COUNTY



Prepared by Virginia Wilson Donna A. Cantrell

RESEARCH MEMORANDUM 438 Legislative Research Commission Frankfort, Kentucky February, 1990

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ECONOMIC TRENDS IN KENTUCKY COUNTIES 1969-1987

BRACKEN COUNTY

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FOREWORD

This publication is one of a set of 120, highlighting economic trends in each county in Kentucky from 1969-1987. This effort is part of the ongoing activities sponsored by the Legislative Research Commission to provide a long-term perspective on issues for decision makers. The economies of individual counties do not always parallel overall state trends. This set of publications is an attempt to look at the economic trends in each county over time and to point out where the economies of individual counties may be performing differently from the economy of the state as a whole.

This publication was prepared by Virginia Wilson and Donna Cantrell. Susan Dance assisted in production of the manuscript and Charles Bush edited the report. The assistance of Carol Straus from the Center for Business and Economic Research at the University of Kentucky in deciphering data is gratefully acknowledged.

Vic Hellard, Jr. Director

The Capitol Frankfort February, 1990

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SUMMARY

The Bracken County economy, as measured by personal income, grew rapidly from 1971 to 1974 but has shown little growth since that time. Bracken County significantly decreased its share of the Kentucky economy, indicating that the county economy has not grown as fast as the state economy.

The most prominent economic trend in Bracken County has been the decline in earnings from the farm sector. Farm employment has also declined, but to a much lesser degree. Earnings and employment in manufacturing have also declined.

There were, however, small increases in the non-goods-producing industries of service and trade. The state and local government sector significantly increased its share of both county earnings and employment. The growth sectors at the state level have been the service and trade sectors.

There is a national and state trend toward declining farm employment. Therefore, the outlook for this sector in Bracken County is for continued decline. Future economic growth in Bracken County will most likely be dependent on growth in other sectors of the economy.

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INTRODUCTION

This is one of a series of reports called <u>Economic Trends in Kentucky Counties</u>. The purpose of this series is to describe the economic structure of Kentucky counties and to assess their economic performance relative to their own history and relative to the Kentucky economy. Information on the structure and patterns of change in county economies and an understanding of their relationship to the Kentucky economy can help in making policy decisions that are intended to shape Kentucky's economic future.*

When assessing any economy there are several pertinent questions which may be addressed. The first concerns changes in the absolute size of the economy over time. Here the relevant comparison is between the county economy and its own history. Since most economic variables are given in dollars and since inflation causes the value of a dollar to vary over time, all dollar values in this report are presented in constant 1988 dollars. This allows analysis of real changes over time by controlling for the effects of inflation.

A second question concerns the structure and nature of the county economy. The structure of an economy refers to the relative share contributed by the various segments of the economy, while the nature deals with how this share has changed over time.

A third question concerns the performance of the county economy when compared to the Kentucky economy. For example, if a county has a higher proportion of earnings or employment in a particular sector it would indicate a specialization in that sector. Differences in economic structure may explain variations in relative economic well-being between a county and the state as a whole.

Economic data for counties are usually published after a lag of two years. Therefore, most data in this report cover the period 1969 to 1987. All data for this report was obtained from the Kentucky Economic Information System, an on-line database maintained by the University of Kentucky Center for Business and Economic Development.

There are certain caveats which should be remembered when analyzing data. First, it is a common and useful approach to evaluate the percentage an economic sector contributes to the total economy. However, one must remember that a sector's percentage contribution may decline even when its absolute value is increasing if another sector's contribution is growing at a faster rate. Secondly, when reviewing data in graphical analyses, the scales used to present data should be noted. In this report most graphs are presented with the narrowest scale which will cover all data points. This can accentuate visual patterns over time even when absolute changes are relatively small.

^{*}For an analysis of economic trends in Kentucky, see Virginia Wilson, Patterns of Growth and Decline in the Kentucky Economy 1969-1988, Research Memorandum 437, Legislative Research Commission, November 1989.

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ECONOMIC TRENDS IN BRACKEN COUNTY

The following analysis includes a brief description of the county economy and is accompanied by graphical illustrations. Data tables are also included at the end of this report. Three principal components of the Bracken County economy are analyzed. They are:

- 1. Personal Income
- 2. Earnings
- 3. Employment

Personal Income

Personal income is often used as a measure of the economic activity in an area. Personal income is the sum of all the dollar income received by individuals in an area from any legal source. Personal income data is published by the Bureau of Economic Analysis (BEA) for most major geographic regions, including states, counties, and major cities.

In general, income can be obtained in three ways. First, it can be earned by the work of an individual. This type of income includes wage and salary income and proprietors' earnings. Second, income can be earned by property. This component includes earnings from rents, dividends, and interest. Finally, income can be received as a gift or an entitlement. This type of income constitutes the component of personal income called transfer payments. Included in this component is income from sources such as retirement benefits, unemployment benefits, food stamps, and medical programs such as Medicare and Medicaid.

As can be seen in Chart 1A, the Bracken County economy, as measured by personal income, increased from \$51 million in 1969 to \$70 million in 1976, after adjusting for inflation. By 1987 personal income had only increased to \$72 million. Chart 1B shows Bracken County total personal income as a percent of Kentucky total personal income. Bracken County decreased its share of Kentucky personal income since 1974.

A similar pattern emerges from an examination of per capita personal income. Per capita personal income is simply the total personal income of an area divided by its population. Per capita personal income is often used as a measure of the economic well-being of the residents of an area. Charts 1C and 1D indicate that Bracken County per capita income increased sporadically over the time period to a level of \$9,413 per person in 1987. This was 75.3 percent of Kentucky per capita personal income for that year.

A better understanding of the nature of economic activity can be gleaned from an examination of the relative contribution of the components of personal income and how their shares have changed over time. This information is illustrated in Charts 2A-2D. Total earnings increased from \$38 million in 1969 to \$50 million in1977, then declined to \$45 million in 1987 (in constant

1988 dollars) and were very volatile. Earnings as a percent of personal income declined over the period. This trend is occurring at the state level as well. In 1987, earnings accounted for 62.4 percent of Bracken County's total personal income, which was lower than Kentucky's 67.5 percent share.

Transfer payments contributed \$7 million to total personal income in 1969 and \$16 million in 1987. During the same period, transfer payments contributed a larger percentage of personal income in Bracken County than in Kentucky.

Income from property in Bracken County grew at a stable rate until 1983 and then began to decline. Income from property totalled \$5 million in 1969, increased to \$13 million in 1983 and had declined to \$11 million by 1987.

Earnings

Earnings are the component of personal income reflecting payments to individuals in return for labor. Earnings include both wages and salaries and proprietor's income. In 1969, Bracken County received 20.3 percent of total earnings from manufacturing. This percentage changed erratically throughout the period and, in 1987, stood at 16.6 percent (Chart 3A). The percent of earnings from the farm sector declined dramatically, from 39.2 percent in 1969 to 6.0 percent in 1987.

Earnings from non-goods-producing industries as a percent of total earnings are illustrated in Chart 3B. The percent of earnings from both the services and state and local government sectors have increased substantially. Earnings from the state and local government sector increased from 8.6 percent in 1969 to 14.2 percent in 1987. The share of earnings from services increased to 11.2 percent in 1987. The share of earnings from trade increased then declined and, at 10.2 percent, was slightly lower in 1987 than 1969. At the state level, the percent of earnings from services increased, while the percent of earnings from trade and state and local government were stable.

Average earnings per job (adjusted for inflation) for Bracken County and Kentucky are shown in Chart 3D. In Kentucky, average earnings per job reached a high of \$20,121 per person in 1978. Since then, average earnings per job declined and in 1987 they were \$18,636 per person. In Bracken County, average earnings grew through the late 1970's, then fluctuated through the 1980's. In 1987 average county earnings per job were \$12,071.

Employment

Employment is considered any activity for which one receives financial remuneration in the form of wages or profits. Total employment in Bracken County remained virtually unchanged over the data period. In 1969, total employment stood at 2,605 people. In 1987 that figure was 2,609.

The unemployment rate, often used as an indicator of economic well-being, is the ratio of unemployed to the total civilian labor force.

Unemployment is described as a condition of being out of work while actively seeking employment within the last thirty days. The civilian labor force is described as the proportion of population age 16 or older employed or actively seeking employment. Annual unemployment rates for Kentucky and Bracken County are presented in Chart 4B. Unemployment rates in Bracken County followed state trends except for a huge county jump in the early 1980's. In 1987, the county unemployment rate was 10.9 percent, compared to 8.8 percent for Kentucky.

Another employment concept includes the discouraged worker. Discouraged workers are persons who want jobs but made no attempt to find work in the last thirty days because they believe they could not find it. These individuals are not included when calculating official unemployment rates. The Cabinet for Human Resources does not estimate discouraged workers by county. However, preliminary research by the Cabinet indicates that the inclusion of discouraged workers in the civilian labor force estimate would increase the unemployment rate by approximately four percent for the state. This figure would vary by county depending on the labor market in a county or within commuting distance.

Employment in the goods-producing industries is illustrated in Chart 4C. The percent of total employment in manufacturing generally declined and accounted for 9.0 percent in 1987. At the state level, manufacturing's share of employment also declined. The farm sector was the primary source of county employment. However, employment in this sector declined from 49.2 percent of total employment in 1969 to 37.3 percent in 1987.

Employment in the non-goods-producing industries is presented in Chart 4D. Employment in the trade sector increased slightly and accounted for 13.5 percent of employment in 1987. The percent of employment in the service sector also increased and accounted for 9.5 percent in 1987. The employment share in state and local government increased from 8.4 percent in 1969 to 11.8 percent in 1987. At the state level, employment shares in both the service and trade sectors increased, while the government employment share remained constant.

Population

The census conducted each decade counts the actual population in an area. Population is then statistically estimated during intervening years. The demographic composition of this population growth has important implications for the future demand for goods and services, and ultimately, the economic structure of Bracken County.

The Bracken County population grew from 7,200 in 1969 to 7,600 in 1987 (Chart 5A). Bracken County has a smaller proportion of younger residents and a higher proportion of older residents than does the state. It was estimated that in 1986, 7.4 percent of Bracken County's population was under six years of age, compared to 8.6 percent for the state. Conversely, for the same year 20.7 percent of the Bracken County population was sixty years of age and over, while 16.5 percent of all Kentucky residents fell in this age group.

CHART 1A
BRACKEN COUNTY
REAL PERSONAL INCOME
Millions of 1988 dollars

as a Percent of Kentucky Personal Income

PERSONAL INCOME

BRACKEN COUNTY

CHART 1B

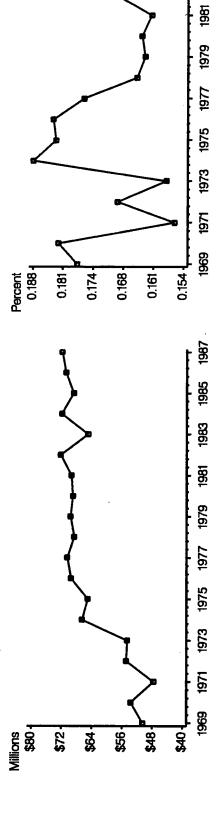


CHART 1D
BRACKEN COUNTY
PER CAPITA PERSONAL INCOME
as a Percent of Kentucky Per Capita Personal Income

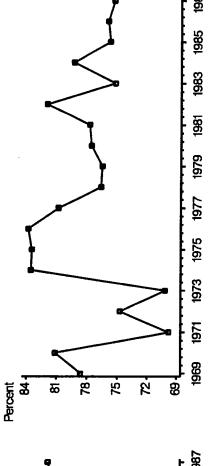
PER CAPITA PERSONAL INCOME

BRACKEN COUNTY

CHART 1C

in Constant 1988 Dollars

<u>88</u>



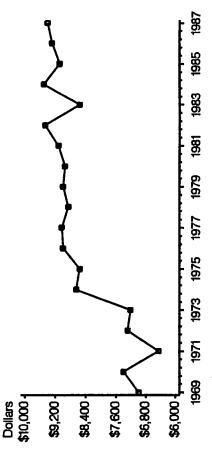


CHART 2A
BRACKEN COUNTY
REAL TOTAL EARNINGS
Millions of 1988 dollars

TRANSFER PAYMENTS and INCOME FROM PROPERTY

BRACKEN COUNTY

CHART 2B

Millions of 1988 Dollars

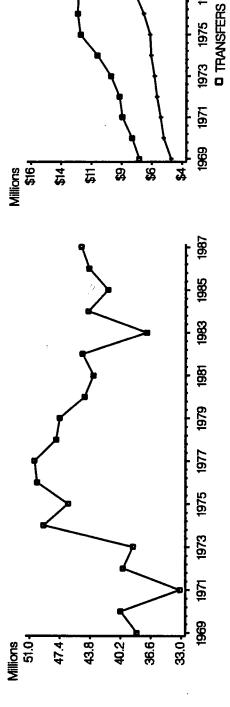


CHART 2D
BRACKEN COUNTY
TRANSFER PAYMENTS
as a Percent of Personal Income

as a Percent of Personal Income

BRACKEN COUNTY TOTAL EARNINGS

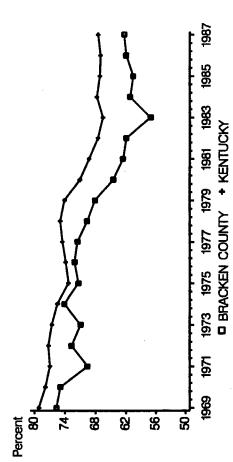
CHART 2C

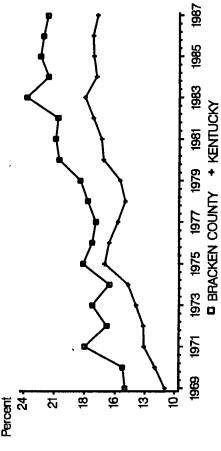
1987

1985

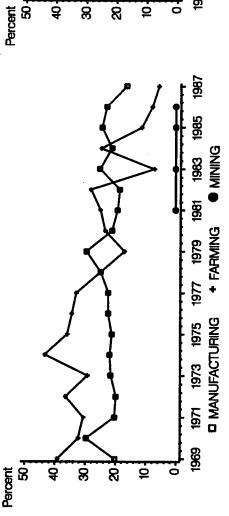
1979 1981 1983 + PROPERTY

1977





EARNINGS IN GOODS PRODUCING INDUSTRIES as a Percent of Total Earnings BRACKEN COUNTY CHART 3A



EARNINGS in GOODS PRODUCING INDUSTRIES as a Percent of Kentucky Industries BRACKEN COUNTY CHART 3C

1.0

Percent

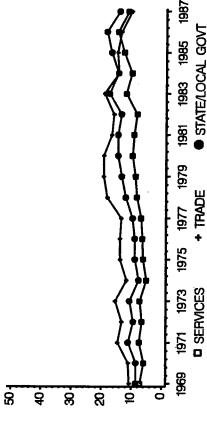
0.88

0.66

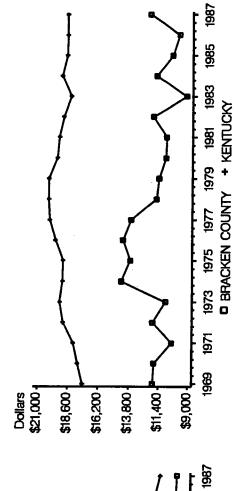
0.44

9.2





AVERAGE EARNINGS PER JOB in Constant 1988 Dollars BRACKEN COUNTY CHART 3D



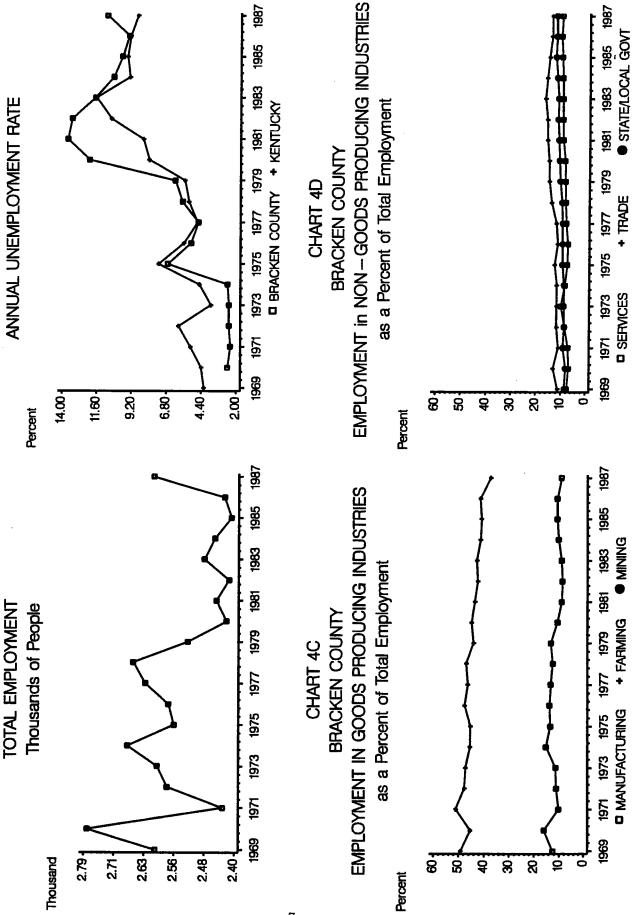
● MINING

+ FARMING 1979

DI MANUFACTURING 1973

1971

0.00



BRACKEN COUNTY

BRACKEN COUNTY

CHART 4A

CHART 4B

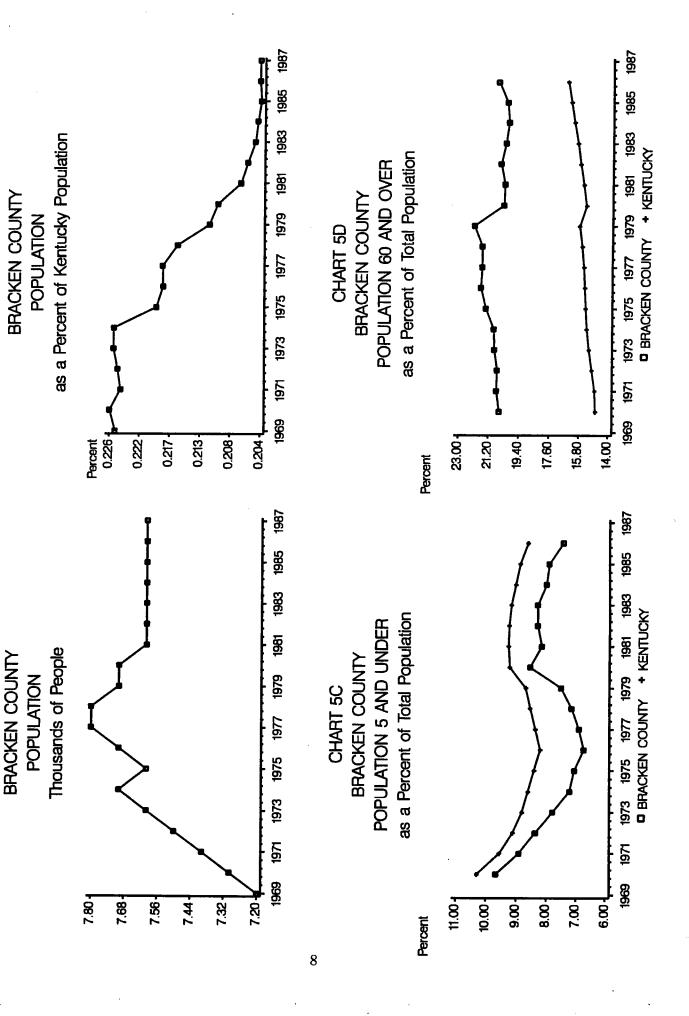


CHART 5B

CHART 5A

BRACKEN COUNTY

PERSONAL INCOME In Constant 1988 Dollars

| Year | County Personal Income (M\$) | Percent of Kentucky (%) | Per Capita Personal Income (\$) | Percent of Kentucky (%) |
|--|--|--|--|--|
| 1969 1970 1971 1972 1973 1974 1975 1976 1977 1978 1979 1980 1981 1982 1983 | 51 54 48 55 55 67 65 70 70 69 70 69 72 65 72 | 0.18 0.18 0.16 0.17 0.16 0.19 0.18 0.18 0.16 0.16 0.16 0.16 0.16 | 6,987 7,395 6,461 7,281 7,204 8,656 8,566 8,995 9,030 8,861 8,995 8,946 9,114 9,467 8,562 9,509 | 78.6 81.1 69.8 74.7 70.2 83.5 83.5 83.8 80.6 76.6 77.6 77.8 81.9 75.2 |
| 1985 1986 1987 | 69 71 72 | 0.15 0.16 0.15 | 9,086 9,292 9,413 | 75.7 75.9 75.3 |

COMPONENTS OF PERSONAL INCOME In Constant 1988 Dollars

| | EARNINGS | | TRA | TRANSFER PAYMENTS | | | E from PROPERTY | | |
|------|----------|--------|-----------------------|-------------------|----------------------------|----------|-----------------|--------|--------------------|
| • | | | cent of nal Income | | Percent of Personal Income | | | | cent of nal Income |
| Year | M\$ | County | Kentucky | M\$ | | Kentucky | M\$ | County | Kentucky |
| 1969 | 38 | 75.7 | 79.2 | 7 | 14.6 | 10.9 | 5 | 9.6 | 9.9 |
| 1970 | 40 | 74.9 | 77.9 | 8 | 14.9 | 11.9 | 5 | 10.2 | 10.2 |
| 1971 | 33 | | 77.0 | 9 | | 12.9 | 6 | 12.0 | 10.1 |
| 1972 | 40 | | 77.3 | 9 | 16.4 | 12.9 | 6 | 10.9 | 9.7 |
| 1973 | 39 | | 76.6 | 10 | 17.7 | 13.6 | 6 | 11.4 | 9.7 |
| 1974 | 49 | 74.2 | 75.5 | 11 | 16.1 | 14.4 | 6 | 9.7 | 10.1 |
| 1975 | 46 | | 73.3 | 12 | 18.5 | 16.5 | 7 | 10.1 | 10.1 |
| 1976 | 50 | 72.1 | 73.9 | 12 | 17.7 | 16.1 | 7 | 10.2 | 10.0 |
| 1977 | 50 | | 74.6 | 12 | 17.4 | 15.3 | 8 | 11.1 | 10.1 |
| 1978 | 48 | 69.7 | 75.0 | 12 | 18.1 | 14.6 | 8 | 12.2 | 10.4 |
| 1979 | 47 | 68.1 | 74.1 | 13 | 18.8 | 15.1 | 9 | 13.1 | 10.8 |
| 1980 | 45 | 64.5 | 71.1 | 14 | 20.8 | 16.7 | 10 | 14.8 | 12.2 |
| 1981 | 43 | 62.6 | 69.3 | 15 | | | 11 | 16.3 | 13.8 |
| 1982 | 45 | 61.9 | 67.5 | 15 | 20.9 | 17.6 | 12 | 17.2 | 14.9 |
| 1983 | 37 | 57.0 | 66.6 | 15 | 23.7 | 18.4 | 13 | 19.3 | 15.1 |
| 1984 | 44 | 61.2 | 67.8 | 16 | | | 12 | 17.1 | 14.9 |
| €985 | 42 | | 67.2 | 15 | 22.5 | 17.6 | 12 | 17.0 | 15.3 |
| 1986 | | | 67.1 | 16 | | | 11 | 15.8 | 15.3 |
| 1987 | 45 | | 67.5 | 16 | | | 11 | 15.8 | 15.3 |

BRACKEN COUNTY

EMPLOYMENT STATISTICS

| | | AVERAGE | EARNINGS | UNEMPLO | LOYMENT RATE | |
|------|------------------|----------|----------|---------|--------------|--|
| YEAR | TOTAL EMPLOYMENT | COUNTY | KENTUCKY | COUNTY | KENTUCKY | |
| 1969 | 2,605 | \$11,824 | \$17,440 | • | 4.2 | |
| 1970 | 2,781 | \$11,724 | \$17,811 | 2.6 | 4.4 | |
| 1971 | 2,431 | \$10,334 | \$18,166 | 2.4 | 5.1 | |
| 1972 | 2,574 | \$11,842 | \$18,970 | 2.5 | 6.0 | |
| 1973 | 2,600 | \$10,828 | \$19,232 | 2.5 | 3.7 | |
| 1974 | 2,677 | \$14,377 | \$19,008 | 2.6 | 4.5 | |
| 1975 | 2,557 | \$13,663 | \$18,976 | 6.7 | | |
| 1976 | 2,571 | \$14,240 | \$19,563 | 5.1 | 5.6 | |
| 1977 | 2,631 | \$13,592 | \$20,031 | 4.6 | 4.7 | |
| 1978 | 2,662 | \$11,548 | \$20,121 | 5.7 | 5.3 | |
| 1979 | 2,521 | \$11,372 | \$20,110 | 6.2 | 5.5 | |
| 1980 | 2,421 | \$10,825 | \$19,439 | 12.1 | 8.0 | |
| 1981 | 2,447 | \$10,784 | \$19,286 | 13.6 | 8.4 | |
| 1982 | 2,414 | \$11,837 | \$18,931 | 13.3 | 10.6 | |
| 1983 | 2,478 | \$9,163 | \$18,358 | 11.7 | 11.6 | |
| 1984 | 2,451 | \$11,584 | \$19,080 | 10.4 | 9.3 | |
| 1985 | 2,408 | \$10,296 | \$18,676 | 9.9 | 9.5 | |
| 1986 | 2,426 | \$9,743 | | 9.4 | 9.3 | |
| 1987 | 2,609 | \$12,071 | \$18,636 | 10.9 | 8.8 | |

POPULATION STATISTICS

PERCENT UNDER AGE 6 PERCENT AGE 60+ COUNTY KENTUCKY POPULATION % OF KY COUNTY KENTUCKY YEAR _____ _____ ____ 0.23 7,200 1969 9.7 20.6 7,300 10.3 14.8 0.23 1970 8.9 20.7 14.8 7,400 0.22 9.6 1971 9.1 20.7 15.0 7,500 0.22 8.4 1972 0.23 7.8 8.8 20.9 15.2 1973 7,600 20.9 15.3 7,700 0.23 7.2 8.6 1974 15.4 0.22 21.4 1975 7,600 7.1 8.4 15.5 7,700 0.22 6.7 8.2 21.7 1976 15.5 1977 7,800 0.22 6.9 8.4 21.6 7,800 0.22 7.1 8.5 21.6 15.6 1978 7.5 8.7 22.1 15.8 7,700 0.21 1979 15.4 8.5 9.2 20.3 0.21 1980 7,700 9.3 20.3 15.5 1981 7,600 0.21 8.2 20.5 15.7 1982 7,600 0.21 8.3 9.2 7,600 0.20 8.3 9.2 20.2 15.9 1983 20.1 16.1 7,600 0.20 8.0 9.0 1984 8.9 20.1 16.3 7,600 0.20 7.9 1985 8.6 1986 7,600 0.20 7.4 20.7 16.5 7,600 0.20 1987

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